

Construction Noise and Vibration Monthly Report – December 2025

Warwick District Council

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Non-Technical Summary

This Noise and Vibration Monitoring Report fulfils HS2 Limited's commitment detailed in the Environmental Minimum Requirements (EMRs), Annex 1, Code of Construction Practice, to present the results of noise and vibration monitoring carried out within Warwick District Council (WDC) area during the month of December 2025.

Within this period noise and vibration monitoring was undertaken at the following worksites:

- Burton Green Tunnel worksite (ref.: BGT), where tunnel works were underway.
- Burton Green Tunnel South Portal worksite (ref.: BSP), where track, drainage and structural works were underway.
- Bockenden Cutting worksite (ref.: BC), where site maintenance, fire tank structural works, dewatering and backfilling were underway.
- Cryfield Grange Road Realignment worksite (ref.: CGR), where utility works were underway.
- Kenilworth Road Overbridge worksite (ref.: A429), where cutting works, crushing, dig and replace, and excavation were underway.
- A46 Compound and Dalehouse Lane worksite (ref.: A46C & DHL) where earthworks, construction of glass house, haul road maintenance, road sweeping and hydro demolition were underway.
- Stoneleigh Village worksite (ref.: SV), where monitor maintenance was undertaken.
- Stoneleigh Park worksite (ref.: SP), where road realignment works, platform construction, overbridge works, shutter removal, wingwall reinforcement, haul road operation and vehicle movements were underway.
- Cubbington Road worksite (ref.: C), where overbridge works, deck reinforcement, de-vegetation steel fixing, shutter installation and striking, wingwall works and bearing repairs were underway.
- Offchurch Cutting worksite (ref.: OC), where earthworks and deliveries were underway.

The HS2 threshold levels for significant noise impacts, which are defined in Information Paper E23 (<https://www.gov.uk/government/publications/hs2-information-papers-environment>), were not exceeded due to HS2 works during December 2025.

There were no exceedances of trigger levels as defined in Section 61 consents during the reporting period.

Seven (7) complaints regarding noise and vibration were received by HS2 during the reporting period.

Abbreviations and Descriptions

The abbreviations, descriptions and project terminology used within this report can be found in Table 1.

Table 1: Table of Abbreviations

Acronym/Term	Definition
L _{Aeq,T}	See equivalent continuous sound pressure level
Ambient sound	A description of the all-encompassing sound at a given location and time which will include sound from many sources near and far. Ambient sound can be quantified in terms of the equivalent continuous sound pressure level, L _{pAeq,T}
Decibel(s), or dB	Between the quietest audible sound and the loudest tolerable sound there is a million to one ratio in sound pressure (measured in Pascal (Pa)). Because of this wide range, a level scale called the decibel (dB) scale, based on a logarithmic ratio, is used in sound measurement. Audibility of sound covers a range of approximately 0-140dB.
Decibel(s) A-weighted, or dB(A)	The human ear system does not respond uniformly to sound across the detectable frequency range and consequently instrumentation used to measure sound is weighted to represent the performance of the ear. This is known as the 'A weighting' and is written as 'dB(A)'.
Equivalent continuous sound pressure level, or L _{Aeq,T}	An index used internationally for the assessment of environmental sound impacts. It is defined as the notional unchanging level that would, over a given period of time (T), deliver the same sound energy as the actual time-varying sound over the same period. Hence fluctuating sound levels can be described in terms of an equivalent single figure value, typically expressed as a decibel level.
Exclusion of data	Measurement of noise levels can be affected by weather conditions such as prolonged periods of rain, winds speeds higher than 5m/s and snow/ice ground cover. Noise levels measured during these periods are considered not representative of normal noise conditions at the site and, for the purposes of this report, are excluded from the assessment of exceedances and calculation of typical noise levels and are also greyed out in charts. Identifiable incongruous noise and vibration events not attributable to HS2 construction noise are also excluded.
Façade	A facade noise level is the noise level 1m in front of a large reflecting surface. The effect of reflection, is to produce a slightly higher (typically +3 dB) sound level than it would be if the reflecting surface was not there.
Free-field	A free-field noise level is the noise level measured at a location where no reflective surfaces, other than the ground, lies within 3.5 metres of the microphone position.
LOAEL	Lowest Observed Adverse Effect Level - the level above which adverse effects on health and quality of life can be detected.
Peak particle velocity, or PPV	Instantaneous maximum velocity reached by a vibrating element as it oscillates about its rest position. The PPV is a simple indicator of perceptibility and risk of damage to structures due to vibration. It is usually measured in mm/s.
SOAEL	Significant Observed Adverse Effect Level - the level above which significant adverse effects on health and quality of life occur.
Sound pressure level	The parameter by which sound levels are measured in air. It is measured in decibels. The threshold of hearing has been set at 0dB, while the threshold of pain is approximately 120dB. Normal speech is approximately 60dB at a distance of 1 metre and a change of 3dB in a time varying sound signal is commonly regarded as being just detectable. A change of 10dB is subjectively twice, or half, as loud.
Vibration dose value, or VDV	An index used to evaluate human exposure to vibration in buildings. While the PPV provides information regarding the magnitude of single vibration events, the VDV provides a measure of the total vibration experienced over a specified period of time (typically 16h daytime and 8h night-time). It takes into account the magnitude, the number and the duration of vibration events and can be used to quantify exposure to continuous, impulsive, occasional and intermittent vibration. The vibration dose value is measured in m/s ^{1.75} .

1 Introduction

1.1.1 HS2 is required to undertake noise (and vibration) monitoring as necessary to comply with the requirements of the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, including specifically Annex 1: Code of Construction Practice, in addition to any monitoring requirements arising from conditions imposed through consents under Section 61 of the Control of Pollution Act, 1974 or through Undertakings & Assurances given to third parties. Such monitoring must be undertaken for the following purposes:

- monitoring the impact of construction works;
- to investigate complaints, incidents and exceedance of trigger levels; or
- monitoring the effectiveness of noise and vibration control measures.

1.1.2 Monitoring data and interpretive reports are to be provided to each relevant local authority on a monthly basis and shall include a summary of the construction activities occurring, the data recorded over the monitoring period, any complaints received, any periods in exceedance of agreed trigger levels, the results of any investigations and any actions taken or mitigation measures implemented. This report provides noise data, and interpretation thereof, for monitoring carried out by HS2 within the Warwick District Council (WDC) area for the period 1st to 31st December 2025.

1.1.3 Construction sites in the local authority area where noise and vibration monitoring were undertaken during this period include:

- Burton Green Tunnel worksite (ref.: BGT, see plan 1 in Appendix A) where work activities included:
 - Tunnel works.
- Burton Green Tunnel Southern Portal worksite (ref.: BSP, see plan 1 in Appendix A) where work activities included:
 - Structural works.
 - Track and drainage works.
- Bockenden Cutting worksite (ref.: BC, see plan 1 in Appendix A), where work activities included:
 - Site maintenance.
 - Fire tank structure works.
 - Dewatering and backfilling.

- Cryfield Grange Road Realignment worksite (ref.: CGR, see plan 2 in Appendix A), where work activities included:
 - Utility works.
- A429 Kenilworth Road Overbridge worksite (ref.: A429, see plan 2 in Appendix A), where work activities included:
 - Dig and replace.
 - Excavation.
 - Mainline cutting and crushing.
- A46 Compound and Dalehouse Lane worksite (ref.: A46C & DHL, see plan 3 in Appendix A), where work activities included:
 - Earthworks.
 - Construction of glass house cutting.
 - Haul road maintenance.
 - Hydro demolition.
 - Road sweeping.
- Stoneleigh Village worksite (ref.: SV, see plan 3 in Appendix A), where work activities included:
 - Monitor maintenance.
- Stoneleigh Park worksite (ref.: SP, see plan 3 in Appendix A), where work activities included:
 - Road realignment works.
 - Platform construction.
 - Overbridge construction including concrete pours.
 - Wingwall reinforcement.
 - Shutter removal.
 - Haul road operation and vehicle movements.
- Cubbington Road worksite (ref.: C, see plan 4 in Appendix A), where work activities included:
 - Overbridge works.
 - Deck reinforcement.
 - De-vegetation.
 - Wingwalls works including steel fixing and shutter installation and striking.
 - Repair works.

- Offchurch Cutting worksite (ref.: OC, see plan 5 in Appendix A), where work activities included:
 - Earthworks.
 - Deliveries.

1.1.4 The applicable standards, guidance, and monitoring methodology is outlined in the construction noise and vibration monitoring methodology report which can be found at the following location <https://www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2>. Noise and vibration monitoring reports for previous months can also be found at this location.

1.2 Measurement Locations

1.2.1 Twenty (20) noise and seven (7) vibration monitoring installations were active in December in the WDC area. Table 2 summarises the location of the noise and vibration monitoring installations within the WDC area in December 2025.

1.2.2 An additional noise and vibration monitor, ref.:CGR-N1 and CGR-V1 were installed at Birches Wood Farm , Crackley Lane, worksite ref.:CGR on the Wednesday 10th of December.

1.2.3 Maps showing the position of the noise and vibration monitoring installations are presented in Appendix B.

Table 2: Monitoring Locations

Worksite Reference	Measurement Reference	Address
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green
	BGT-N8	301 Cromwell Lane, Burton Green
	BGT-V3	Alms House, Cromwell Lane, Burton Green
	BGT-V11	301 Cromwell Lane, Burton Green
BSP	BSP-N1	33 Broadwell Woods, Red Lane, Burton Green, Kenilworth
BC	BC-N1	Thistle Estate, Red Lane, Burton Green
CGR	CGR-N1	Birches Wood Farm, Crackley Lane, Burton Green
	CGR-V1	Birches Wood Farm, Crackley Lane, Burton Green
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth
	A429-N3	16 Kenilworth Road, Kenilworth
DHL	DHL-N1	Four Winds, Dalehouse Lane, Kenilworth

Worksite Reference	Measurement Reference	Address
A46C	A46C-N1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth
	A46C-N2	A46 Barns, Dalehouse Lane, Kenilworth
	A46C-V1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth
SV	SV-N4	Crewe Lane, Stoneleigh, Coventry
SP	SP-N1	Stoneleigh, Kenilworth
	SP-N2	Stoneleigh Park, Kenilworth
	SP-V1	Stoneleigh, Kenilworth
C	C-N1	Wychwood, Cubbington Road, Leamington Spa
	C-N2	Heathfield, Stonehouse Farm, Cubbington
	C-V1	Wychwood, Cubbington Road, Leamington Spa
OC	OC-N1	Welsh Road Farm, Welsh Road, Offchurch, Leamington Spa
	OC-N2	Valley Fields, Offchurch, Leamington Spa
	OC-N3	Brickyard Cottage, Welsh Road, Offchurch
	FOS-N1	Landsdowne House, Offchurch
	FOS-V1	Landsdowne House, Offchurch

2 Summary of Results

2.1 Summary of Measured Noise and Vibration Levels

2.1.1 Table 3 presents a summary of the measured noise levels at each monitoring location over the reporting period. The $L_{Aeq,T}$ is presented for each of the relevant time periods averaged over the calendar month, along with the highest single period $L_{Aeq,T}$ that was found to occur within the month.

Table 3: Summary of Measured dB L_{Aeq} Data over the Monitoring Period

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average L _{Aeq,T} (Highest Day L _{Aeq,T})					Saturday Average L _{Aeq,T} (Highest Day L _{Aeq,T})					Sunday / Public Holiday Average L _{Aeq,T} (Highest Day L _{Aeq,T})	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green	Free-field	53.2 (56.6)	50.5 (53.2)	47.1 (54.9)	44.8 (64.4)	40.2 (50.1)	53.8 (55.9)	50.7 (53.0)	48.8 (49.1)	47.7 (55.3)	37.8 (43.4)	48.7 (59.2)	38.4 (45.2)
	BGT-N8	301 Cromwell Lane, Burton Green	Free-field	46.5 (52.8)	53.3 (67.4)	44.7 (58.6)	43.5 (62.1)	39.3 (50.2)	46.3 (50.3)	51.4 (60.2)	44.4 (45.8)	43.5 (50.0)	36.8 (42.0)	42.8 (48.0)	37.2 (45.7)
BSP	BSP-N1	33 Broadwell Woods Caravan Park, Red Lane, Burton Green	Free-field	51.2 (57.1)	56.8 (59.7)	50.0 (56.9)	49.5 (60.6)	47.5 (57.0)	51.9 (55.8)	54.3 (56.2)	52.0 (56.0)	51.6 (56.5)	49.7 (56.2)	50.0 (56.2)	46.6 (51.2)
BC	BC-N1	Thistle Estate, Red Lane, Burton Green	Free-field	45.3 (49.7)	46.3 (51.3)	42.6 (51.8)	42.0 (51.6)	38.9 (47.2)	46.3 (48.4)	44.6 (46.7)	42.2 (43.5)	42.5 (49.1)	37.3 (41.8)	44.0 (53.3)	37.6 (43.9)
CGR	CGR-N1	Birches Wood Farm, Crackley Lane, Burton Green	Free-field	47.3 (52.9)	52.1 (61.4)	48.7 (56.9)	46.4 (52.1)	43.8 (60.5)	44.5 (45.6)	48.3 (50.1)	48.5 (49.6)	47.4 (50.5)	41.4 (46.8)	47.6 (57.2)	43.1 (53.0)

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Saturday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Sunday / Public Holiday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth	Free-field	49.0 (53.9)	51.7 (53.8)	52.2 (56.4)	50.4 (55.9)	48.0 (59.2)	48.3 (49.1)	49.9 (50.3)	49.8 (52.9)	49.5 (53.7)	41.9 (49.1)	49.5 (53.6)	44.2 (51.5)
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth	Free-field	49.9 (51.7)	51.3 (52.1)	50.6 (53.9)	48.1 (52.2)	45.9 (53.9)	46.0 (47.5)	49.5 (50.6)	49.3 (49.9)	47.9 (51.7)	40.5 (46.1)	47.8 (51.4)	43.3 (48.5)
	A429-N3	16 Kenilworth Road, Kenilworth	Free-field	54.2 (63.8)	64.1 (72.5)	54.5 (64.4)	52.4 (62.9)	48.4 (59.8)	56.7 (58.1)	63.1 (70.6)	57.3 (61.3)	55.7 (61.4)	48.9 (57.0)	56.1 (63.2)	49.0 (57.8)
DHL	DHL-N1	Four Winds, Dalehouse Lane, Kenilworth.	Free-field	55.6 (57.0)	61.1 (70.7)	52.7 (56.9)	51.0 (55.5)	49.1 (55.5)	52.2 (52.9)	54.0 (59.4)	53.4 (60.0)	51.4 (56.8)	48.0 (50.1)	53.0 (66.2)	49.0 (54.2)
A46C	A46C-N1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	Free-field	62.0 (65.2)	61.9 (64.7)	60.9 (66.3)	59.5 (64.9)	56.8 (64.5)	59.4 (60.7)	62.0 (62.7)	62.2 (63.6)	61.2 (63.7)	55.5 (59.8)	61.2 (63.5)	57.4 (63.9)
	A46C-N2	A46 Barns, Dalehouse Lane, Kenilworth	Free-field	57.3 (61.5)	57.0 (61.2)	55.7 (62.1)	54.7 (61.1)	52.2 (60.8)	54.9 (56.9)	57.4 (58.8)	57.5 (59.1)	56.7 (59.8)	51.1 (56.0)	56.4 (59.6)	52.7 (60.3)

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Saturday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Sunday / Public Holiday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
SV	SV-N4	Crewe Lane, Stoneleigh, Coventry	Free-field	60.9 (66.3)	61.0 (64.2)	58.5 (61.5)	56.4 (68.7)	52.0 (61.9)	55.7 (58.2)	60.0 (61.5)	60.1 (61.4)	57.4 (60.6)	50.0 (53.8)	57.6 (60.3)	51.9 (59.7)
SP	SP-N1	Stoneleigh, Kenilworth	Free-field	50.2 (53.0)	54.6 (61.0)	49.1 (51.8)	48.1 (51.5)	44.5 (50.5)	48.5 (48.6)	51.4 (51.6)	51.5 (51.6)	49.7 (51.7)	43.5 (47.9)	49.2 (50.9)	42.9 (47.4)
	SP-N2	Stoneleigh Park, Kenilworth	Façade	54.5 (62.7)	54.4 (59.5)	50.4 (56.7)	47.8 (54.7)	45.9 (56.3)	49.5 (54.8)	50.5 (52.1)	49.7 (51.6)	48.5 (55.7)	42.8 (45.8)	49.0 (56.6)	44.0 (50.2)
C	C-N1	Wychwood, Cubbington Road, Lillington	Free-field	50.0 (54.0)	52.9 (56.6)	51.2 (54.6)	48.7 (53.9)	42.1 (50.0)	46.9 (49.4)	53.1 (54.4)	54.3 (55.0)	51.8 (55.9)	42.6 (48.5)	51.2 (55.2)	40.7 (47.4)
	C-N2	Heathfield, Stonehouse Farm, Cubbington	Free-field	65.2 (68.8)	67.0 (70.8)	64.6 (67.8)	62.3 (65.7)	57.8 (65.5)	62.5 (63.8)	66.2 (67.1)	66.4 (66.8)	64.4 (66.6)	56.8 (60.9)	63.5 (67.9)	57.6 (65.3)

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Saturday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)					Sunday / Public Holiday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$)	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
OC	OC-N1	Welsh Road Farm, Welsh Road, Offchurch	Free-field	61.6 (66.0)	62.7 (65.0)	61.0 (63.7)	58.4 (62.7)	52.8 (61.9)	56.7 (59.4)	62.9 (64.7)	65.0 (67.5)	61.8 (66.7)	54.3 (65.9)	60.4 (66.7)	52.1 (60.5)
	OC-N2	Valley Fields, Offchurch	Free-field	47.6 (53.2)	49.9 (59.7)	45.7 (52.6)	45.9 (52.4)	44.2 (53.0)	43.8 (49.0)	45.4 (47.2)	44.9 (47.3)	45.8 (51.4)	43.2 (50.3)	46.0 (55.1)	43.6 (52.8)
	OC-N3	Brickyard Cottage, Welsh Road, Offchurch	Free-field	54.2 (60.0)	56.2 (62.0)	52.9 (56.3)	51.0 (58.5)	45.6 (59.0)	49.4 (51.6)	57.8 (61.1)	56.4 (58.6)	53.3 (60.7)	44.8 (56.0)	53.7 (63.3)	43.9 (52.7)
	FOS-N1	Long Itchington Road, Offchurch	Free-field	46.2 (50.5)	48.7 (53.7)	45.3 (48.8)	43.3 (50.4)	40.5 (50.0)	44.0 (45.5)	47.3 (48.5)	46.9 (49.4)	45.3 (47.8)	40.8 (50.1)	45.5 (52.4)	40.5 (49.7)

2.1.2 Table 4 presents a summary of the measured vibration levels at each monitoring location over the reporting period. The highest PPV measured during the monitoring along any axis is presented in the table.

Table 4: Summary of Measured PPV Data over the Monitoring Period

Worksite Reference	Measurement Reference	Monitor Address	Highest PPV measured in any axis mm/s
BGT	BGT-V3	Alms House, Cromwell Lane, Burton Green	0.74 (Y-axis)
	BGT-V11	301 Cromwell Lane, Burton Green	1.53 (X-axis)
CGR	CGR-V1	Birches Wood Farm, Crackley Lane, Burton Green	1.09 (X-axis)
A46C	A46C-V1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	0.79 (Z-axis)
SP	SP-V1	East Lodge, Stoneleigh	2.24 (X-axis)
OC	FOS-V1	Long Itchington Road, Offchurch	1.50 (X-axis)
C	C-V1	Wychwood, Cubbington Road, Lillington	0.93 (X-axis)

2.1.3 Appendix C presents graphs of the noise and vibration monitoring data over the month for each of the measurement locations. Noise data presented consists of the hourly L_{Aeq} values and, where relevant, the $L_{Aeq,T}$ values (where the time period T has been taken to be the averaging period as specified in Table 1 of HS2 Information Paper E23). Vibration data presented consist of hourly PPV values. The full data set for the monitoring equipment can be found at the following location:

<https://data.gov.uk/dataset/24542ae7-dd44-444f-b259-871c4cc43b5e/environmental-monitoring-data>.

2.2 Exceedances of the LOAEL and SOAEL

2.2.1 The lowest observed adverse effect level (LOAEL) is defined in the Planning Practice Guidance – Noise (PPG) as the level above which "noise starts to cause small changes in behaviour and/or attitude, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a perceived change in the quality of life".

2.2.2 The significant observed adverse effect level (SOAEL) is defined in the 'Planning Practice Guidance – Noise' as the level above which "noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed

most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area."

2.2.3 HS2 Phase One Information Paper E23: Control of Construction Noise and Vibration sets out the LOAELs and SOAELs for construction noise.

2.2.4 Where reported construction noise levels exceed the LOAEL and SOAEL, relevant periods will be identified. Summary statistics to evaluate ongoing qualification for noise insulation and temporary rehousing are also presented where relevant.

2.2.5 Table 5 presents a summary of recorded exceedances of the LOAEL and SOAEL at each measurement location over the reporting period, including the number of exceedances during each time period.

Table 5: Summary of Exceedances of LOAEL and SOAEL

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green, Warwick	All days	All periods	No exceedances	No exceedances
	BGT-N8	301 Cromwell Lane, Burton Green, Warwick	Weekday	0800-1800	1	No exceedances
BSP	BSP-N1*	33 Broadwell Woods Caravan Park, Red Lane, Burton Green	All days	All periods	No exceedances	No exceedances
BC	BC-N1*	Thistle Estate, Red Lane, Burton Green	All days	All periods	No exceedances	No exceedances
CGR	CGR-N1*	Birches Wood Farm, Crackley Lane, Burton Green	All days	All periods	No exceedances	No exceedances

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth	All days	All periods	No exceedances	No exceedances
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth	All days	All periods	No exceedances	No exceedances
	A429-N3	16 Kenilworth Road, Kenilworth	Weekday Saturday	0800-1800 0800-1300	8 1	No exceedances
DHL	DHL-N1*	Four Winds, Dalehouse Lane, Kenilworth.	Weekday	0800-1800	3	No exceedances
A46C	A46C-N1*	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	All days	All periods	No exceedances	No exceedances
	A46C-N2*	A46 Barns, Dalehouse Lane, Kenilworth	All days	All periods	No exceedances	No exceedances
SV	SV-N4	Crewe Lane, Stoneleigh, Coventry	All days	All periods	No exceedances	No exceedances
SP	SP-N1*	Stoneleigh Park, Kenilworth	All days	All periods	No exceedances	No exceedances
	SP-N2*	Stoneleigh Park, Kenilworth	All days	All periods	No exceedances	No exceedances
C	C-N1	Wychwood, Cubbington Road, Lillington Spa	All days	All periods	No exceedances	No exceedances
C	C-N2*	Heathfield, Stonehouse Farm, Cubbington	Weekday	0800-1800 1800-1900 1900-2200	6 1 9	No exceedances

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
OC	OC-N1*	Welsh Road Farm, Welsh Road, Offchurch	All days	All periods	No exceedances	No exceedances
	OC-N2	Valley Fields, Hunningham Road, Offchurch	All days	All periods	No exceedances	No exceedances
	OC-N3*	Brickyard Cottage, Welsh Road, Offchurch,	All days	All periods	No exceedances	No exceedances
	FOS-N1*	Long Itchington Road, Offchurch	All days	All periods	No exceedances	No exceedances

* Note: A distance correction has been applied while calculating exceedances of the LOAEL and SOAEL.

2.2.6 There were exceedances of the LOAEL due to HS2 construction works at four (4) monitoring locations during weekday daytime and evening and Saturday daytime periods.

2.2.7 There were no exceedances of the SOAEL due to HS2 construction works during December 2025.

2.3 Exceedances of Trigger Level

2.3.1 Table 6 provides a summary of exceedances of the Section 61 trigger noise levels determined to be due to HS2 related construction noise measured during the reporting period, along with the findings of any investigation.

Table 6: Summary of Exceedances of Trigger Levels

Complaint Reference Number (if applicable)	Worksite Reference	Date and Time Period	Identified Source	Results of Investigation (including noise monitoring results)	Actions Taken
-	-	-	-	-	-

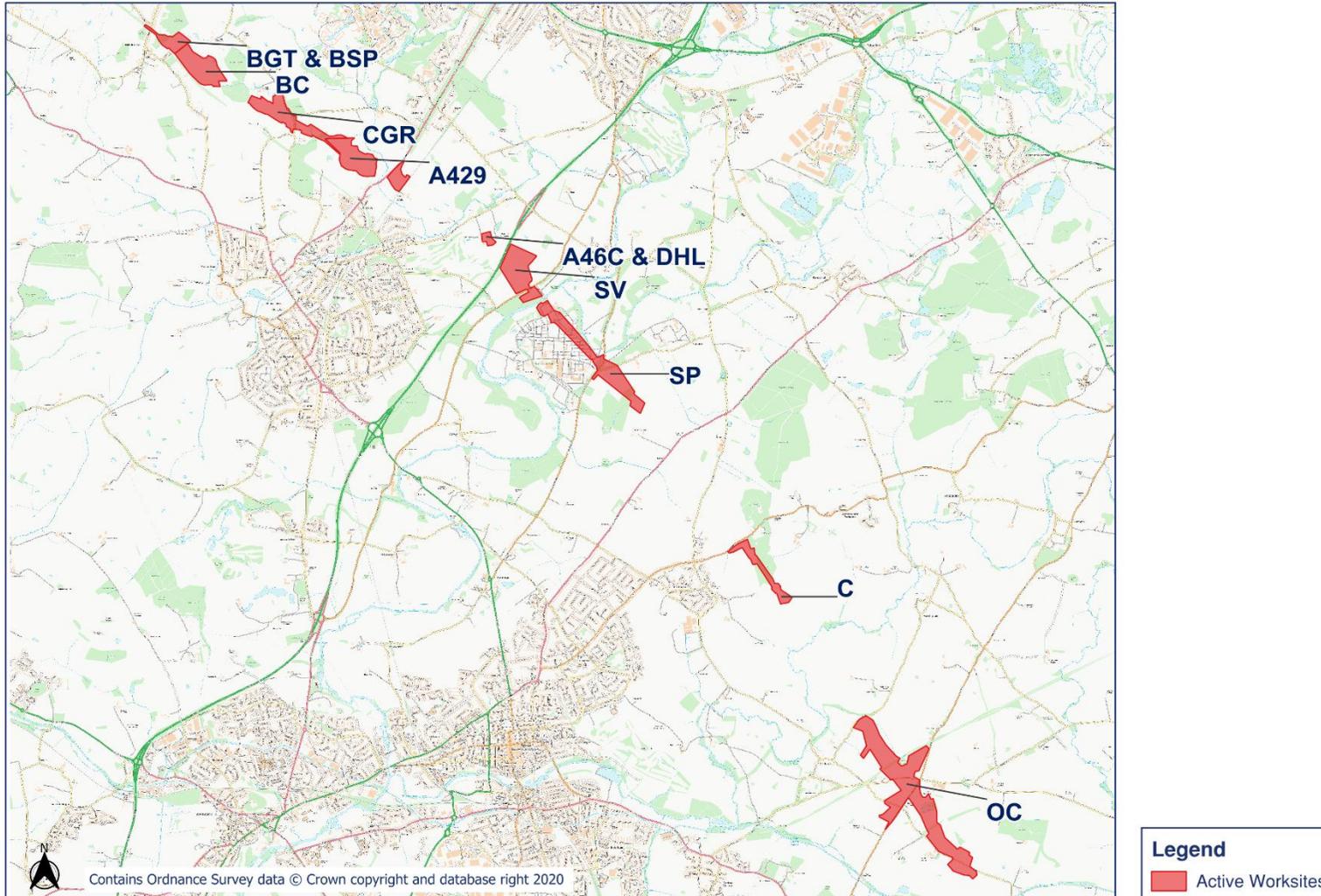
2.4 Complaints

2.4.1 Table 7 provides a summary of complaint information related to noise and vibration received during the reporting period, along with the findings of any investigation.

Table 7: Summary of Complaints

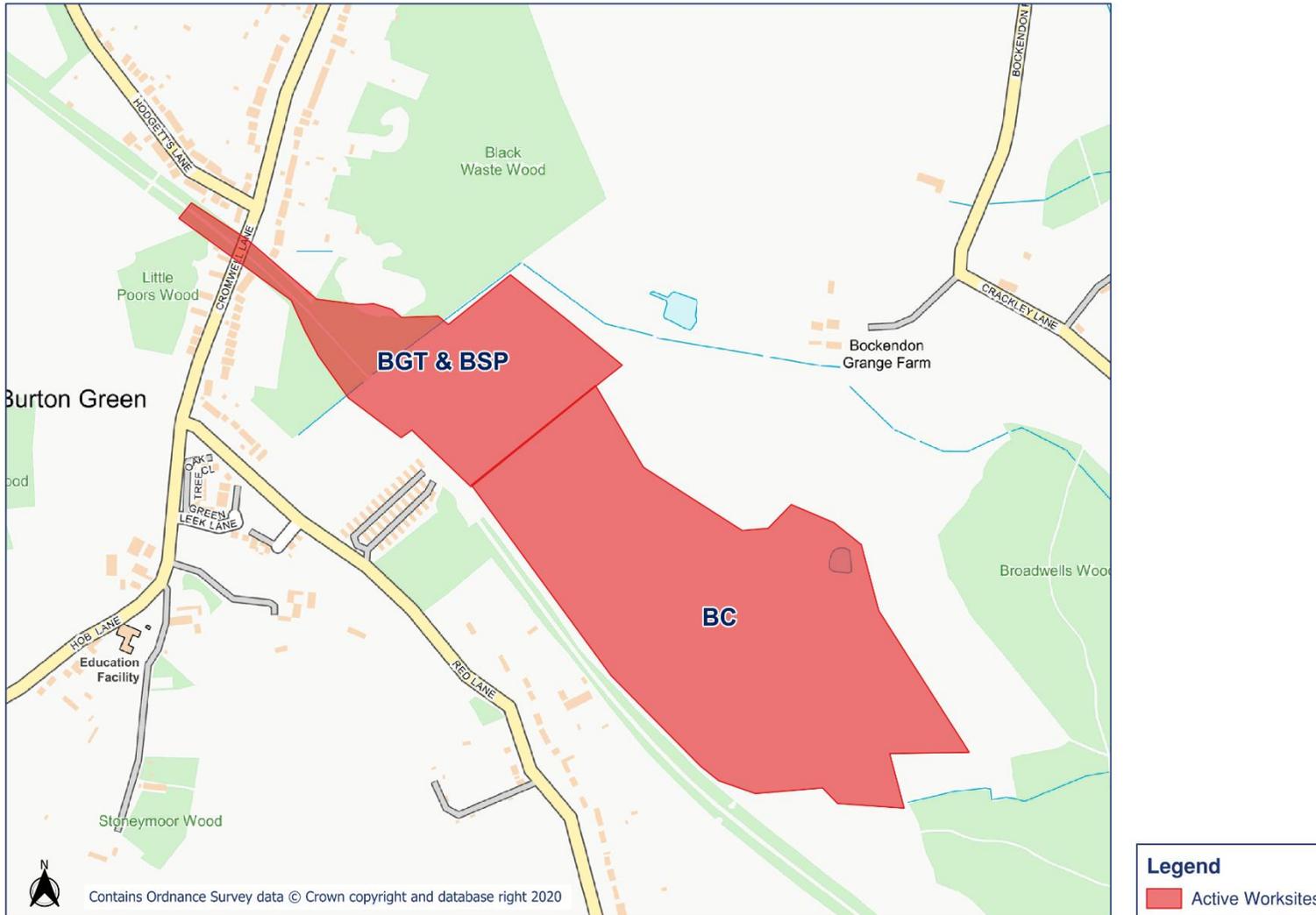
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-25-128719-E-C HS2-25-128727-E-C HS2-25-46964-C HS2-25-46975-C HS2-25-128918-E-C HS2-25-46980-C HS2-25-46981-C	CGR	Complaint regarding generator noise	Noise was due to power pumps generators to prevent onsite flooding and damage during periods of heavy rainfall.	Contractors have installed appropriate mitigation in the form of acoustic barriers to mitigate noise levels for residents The resident has been informed with the results of investigation

Appendix A Site Locations



HS2

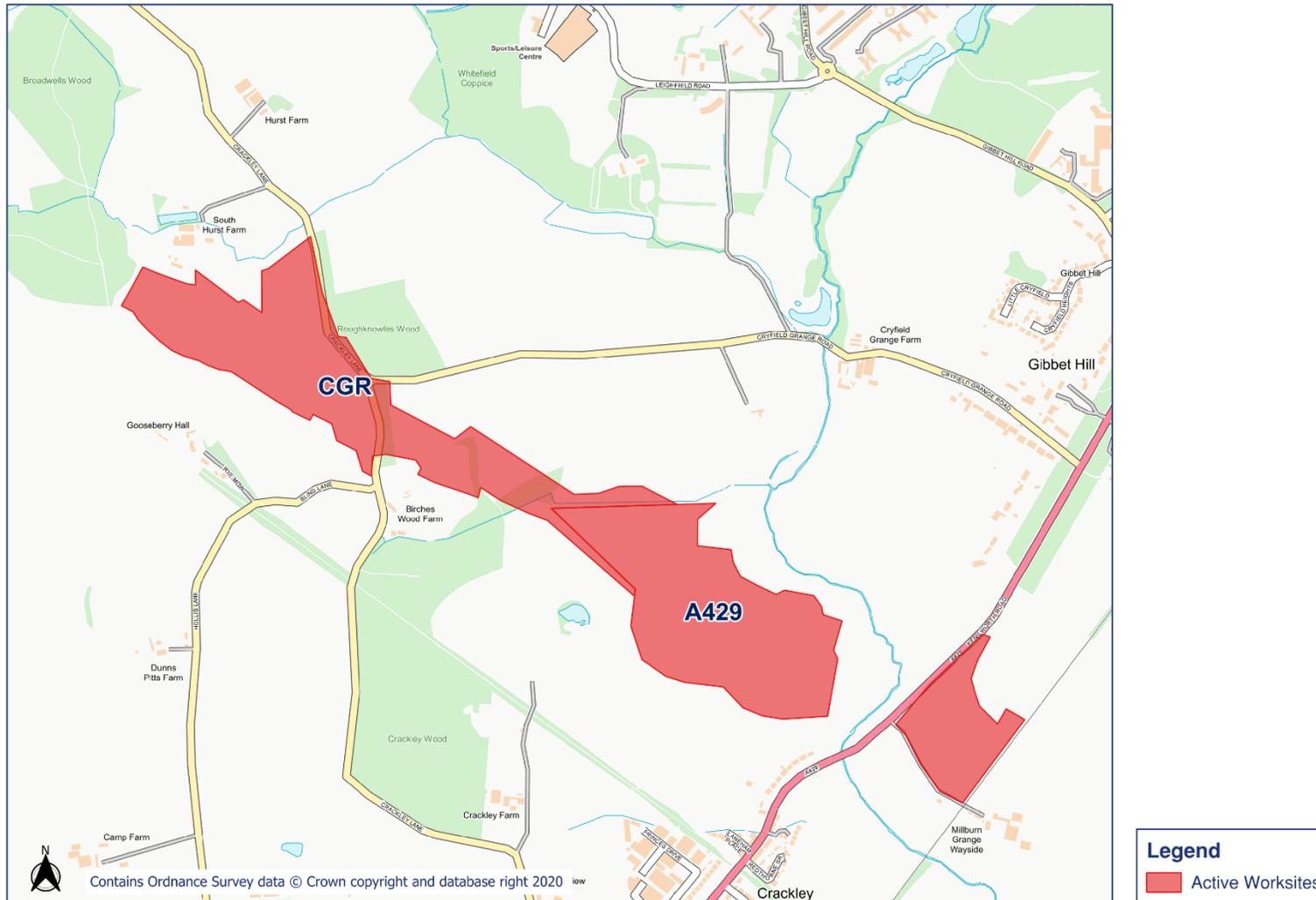
Worksite Identification Plan - 1



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HS2

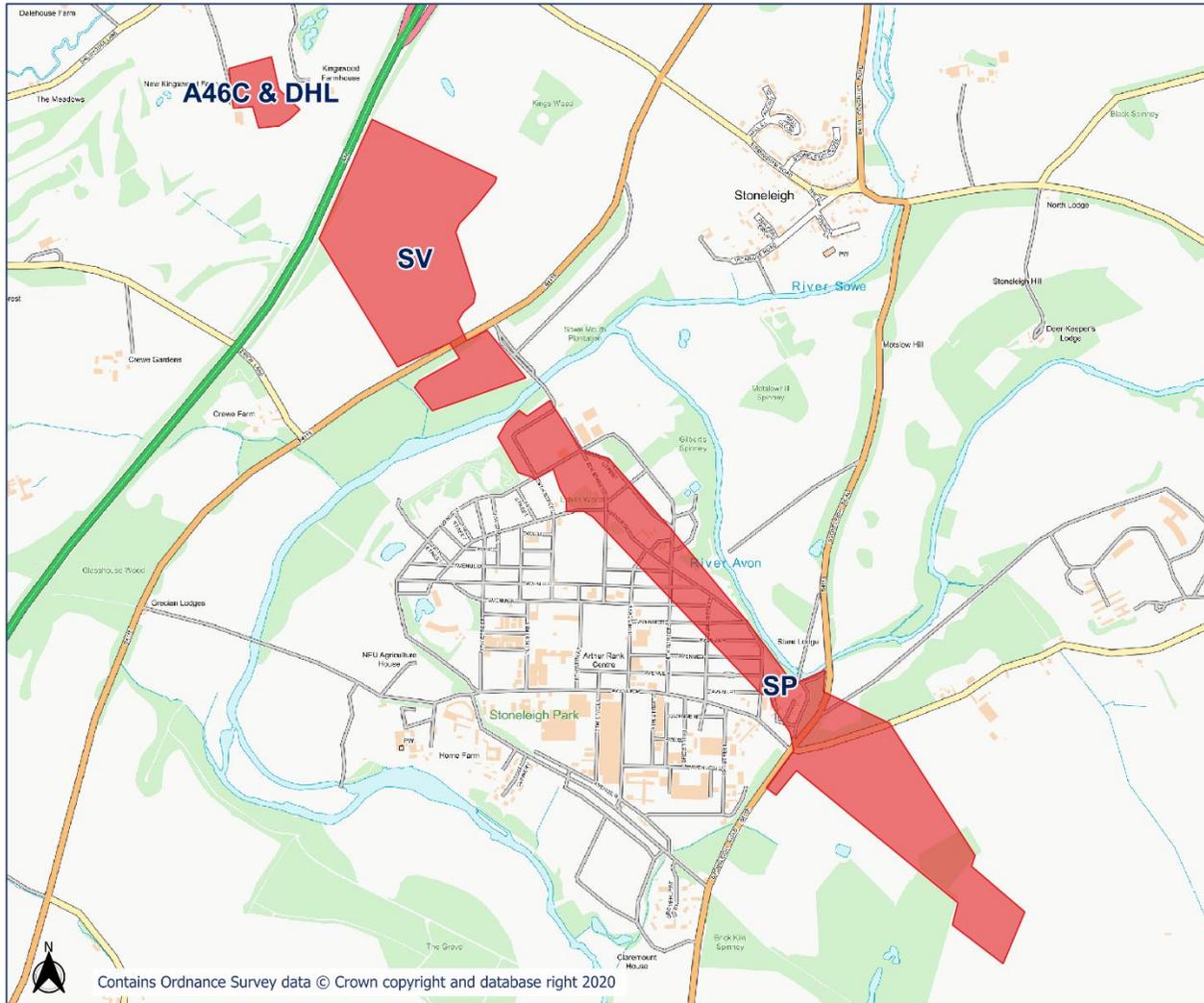
Worksite Identification Plan - 2



OFFICIAL

HS2

Worksite Identification Plan - 3



OFFICIAL

HS2

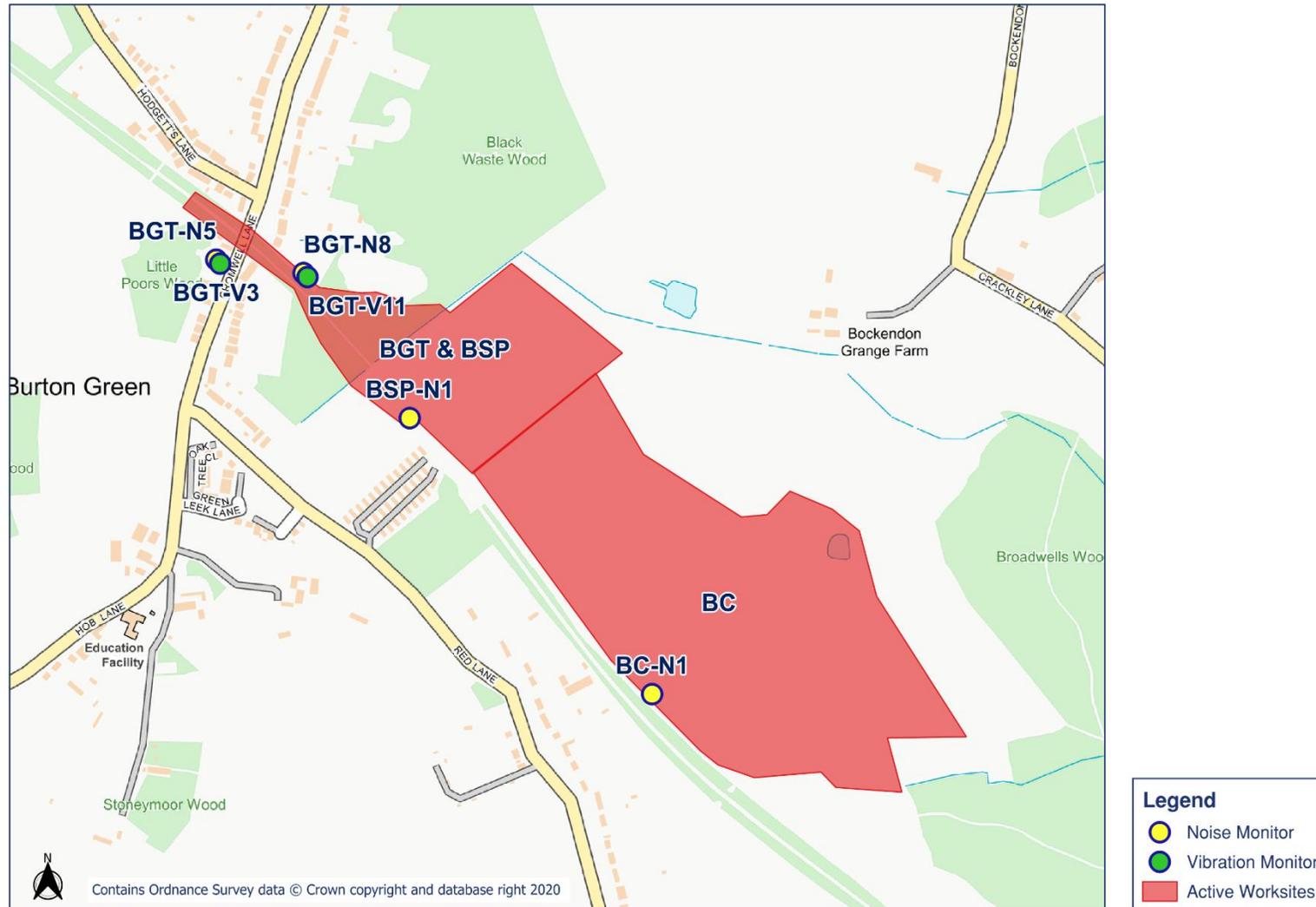
Worksite Identification Plan - 4



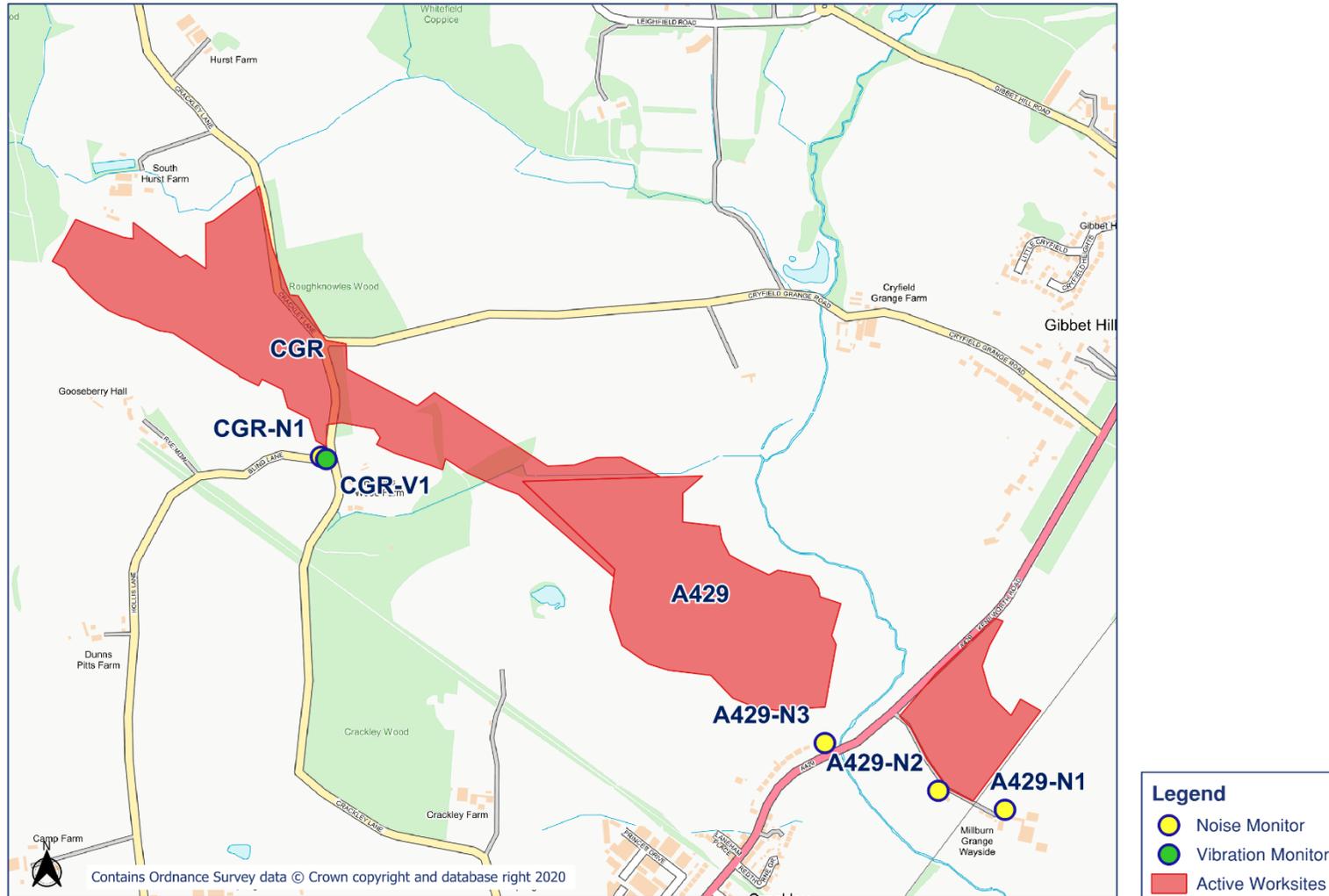
Appendix B Monitoring Locations

HS2

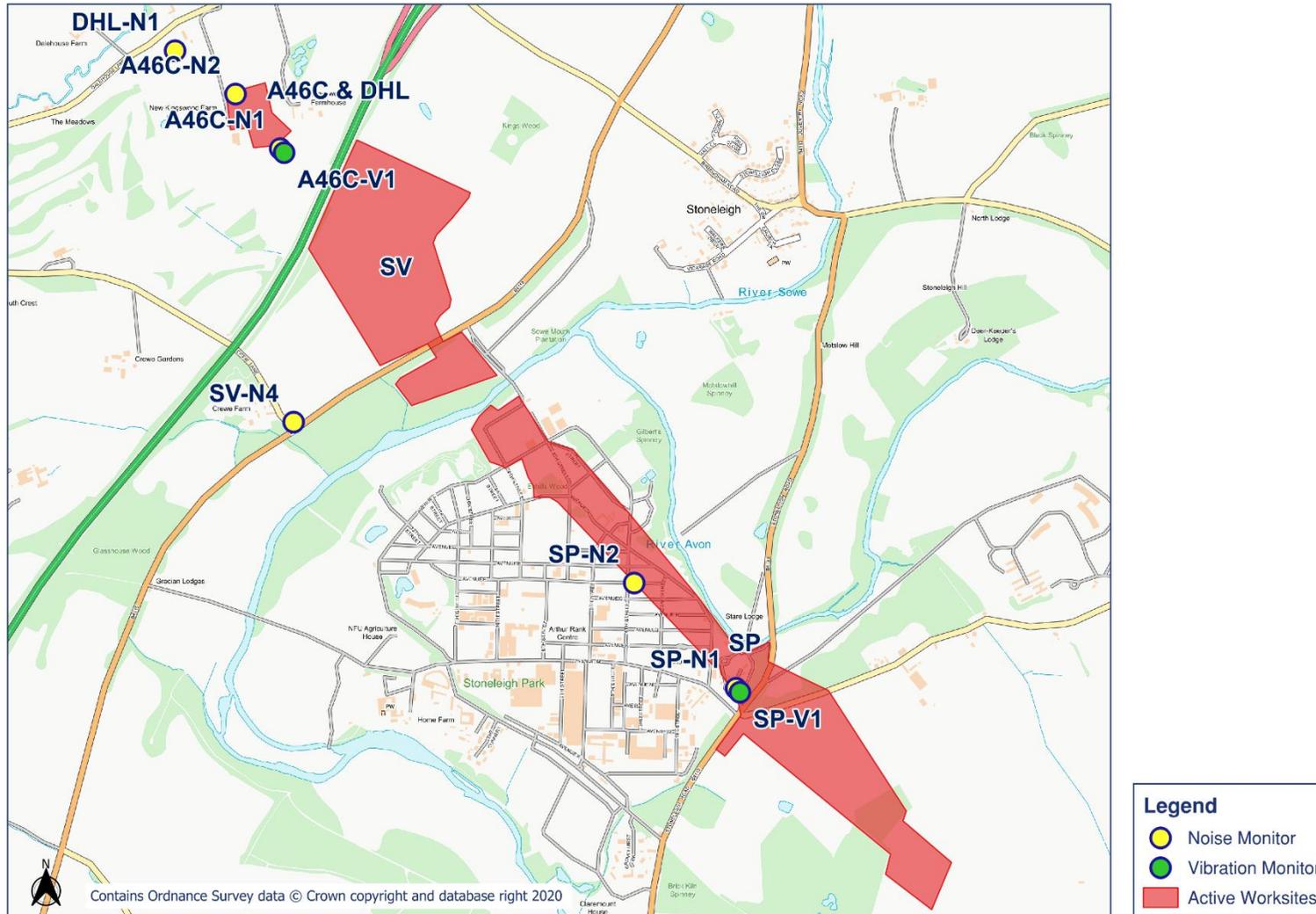
Noise and Vibration Monitoring Plan - 1



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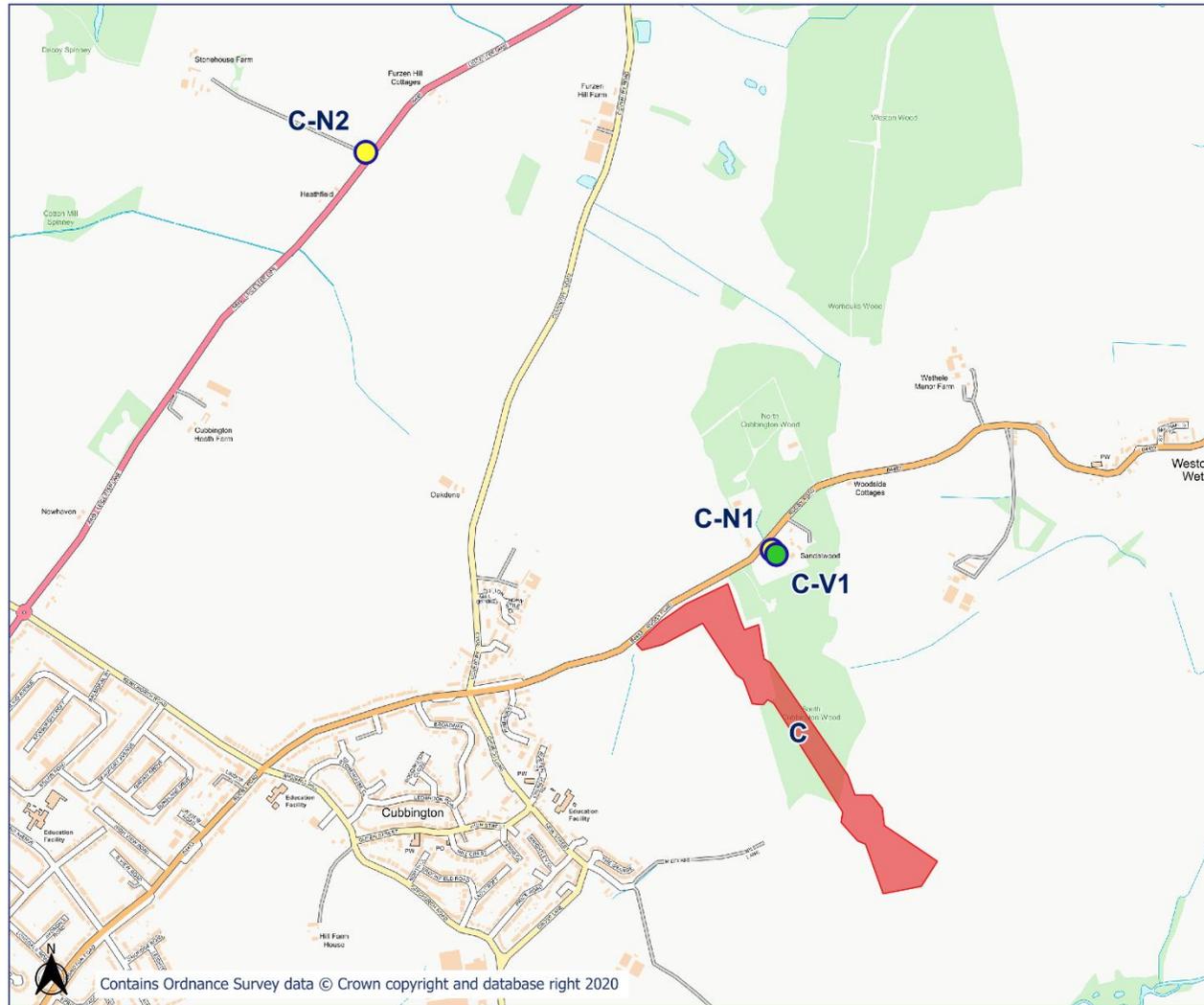
HS2 Noise and Vibration Monitoring Plan - 3



OFFICIAL

HS2

Noise and Vibration Monitoring Plan - 4



Legend

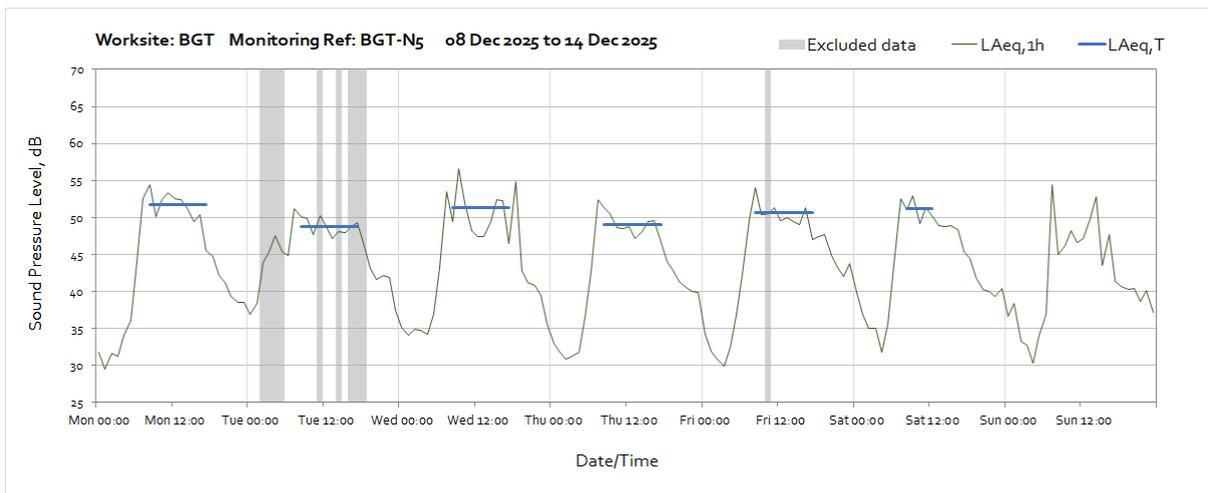
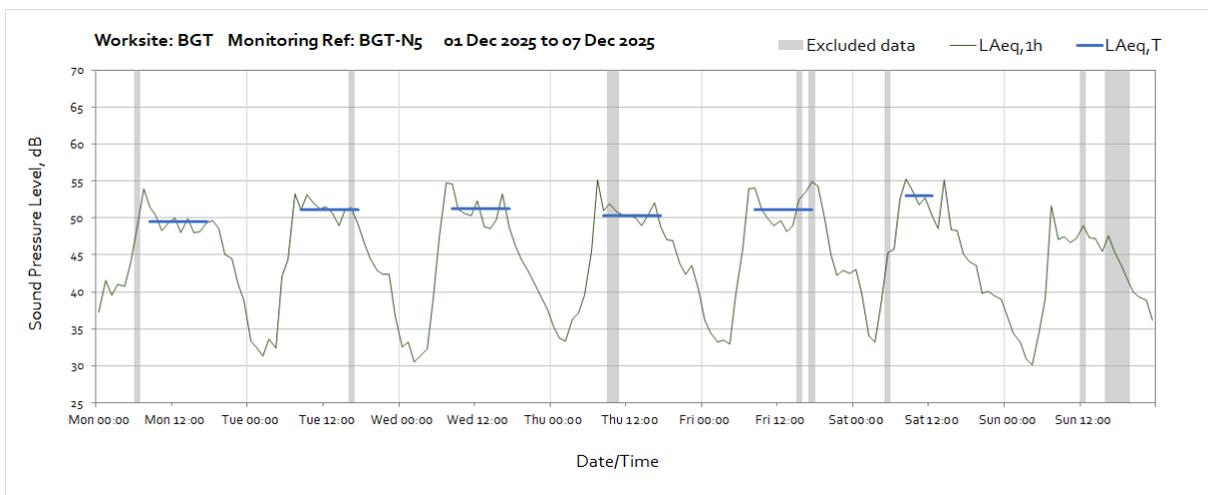
-  Noise Monitor
-  Vibration Monitor
-  Active Worksites

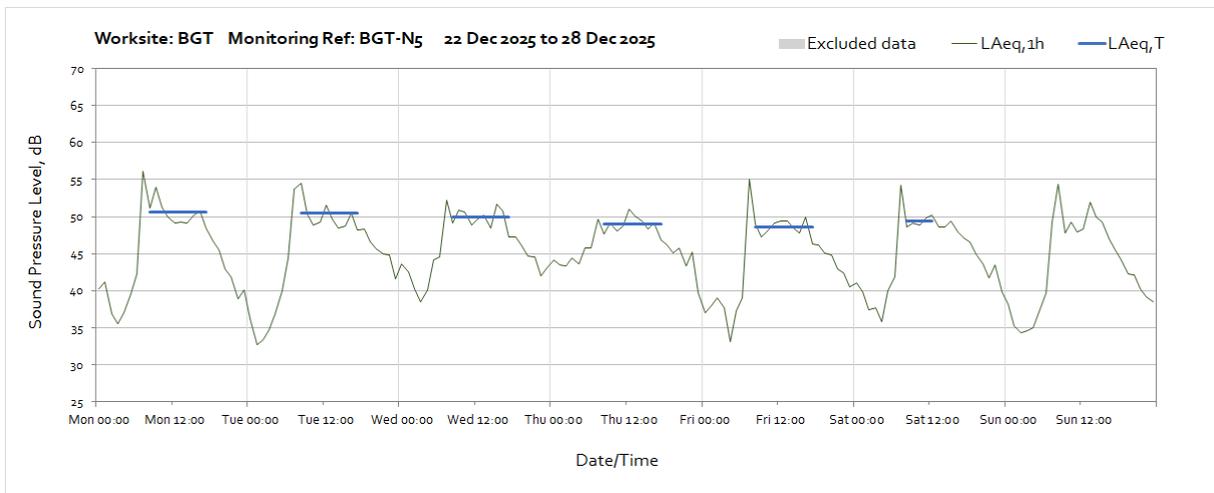
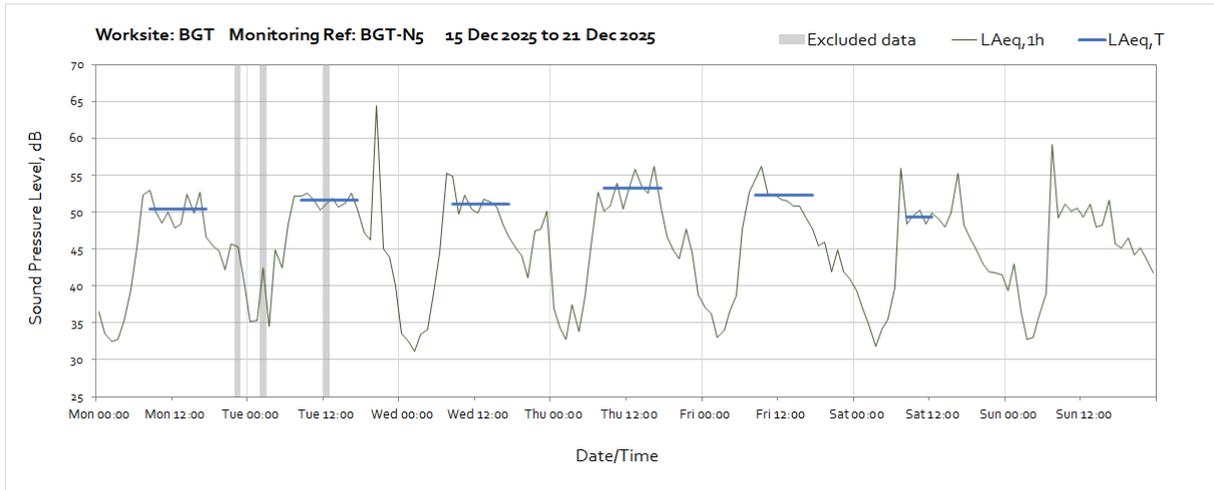
Appendix C Data

Noise

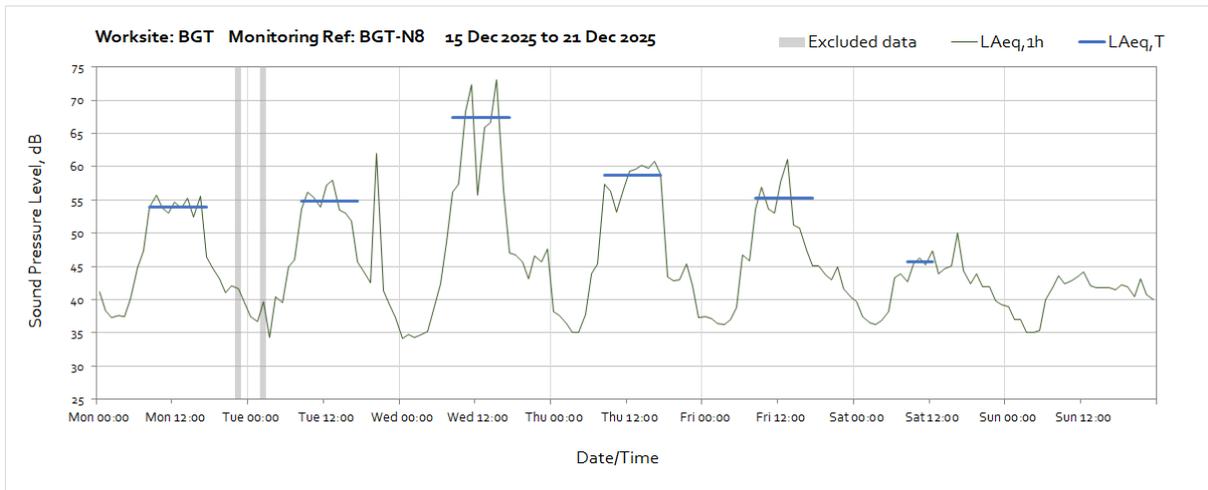
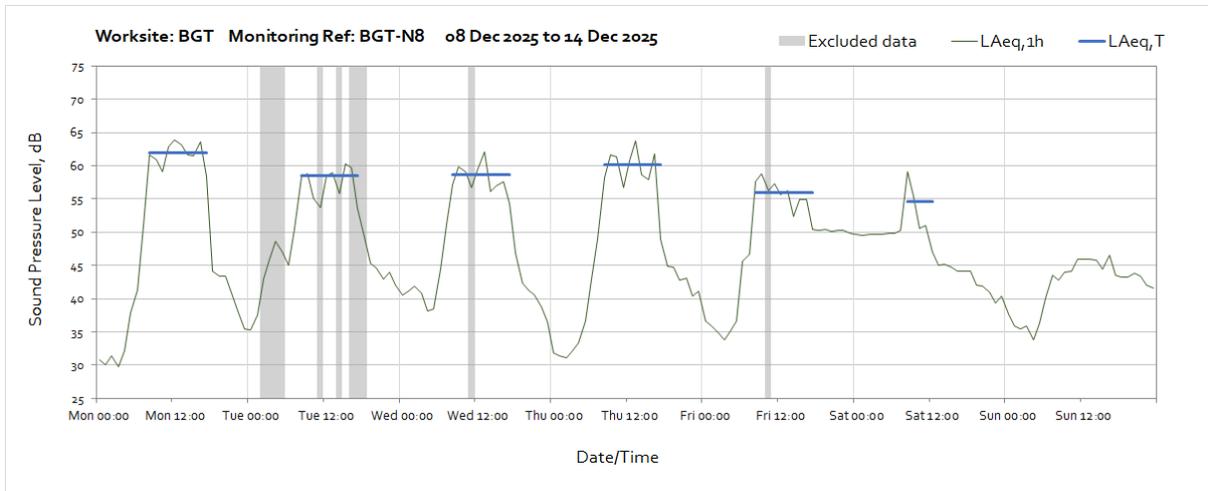
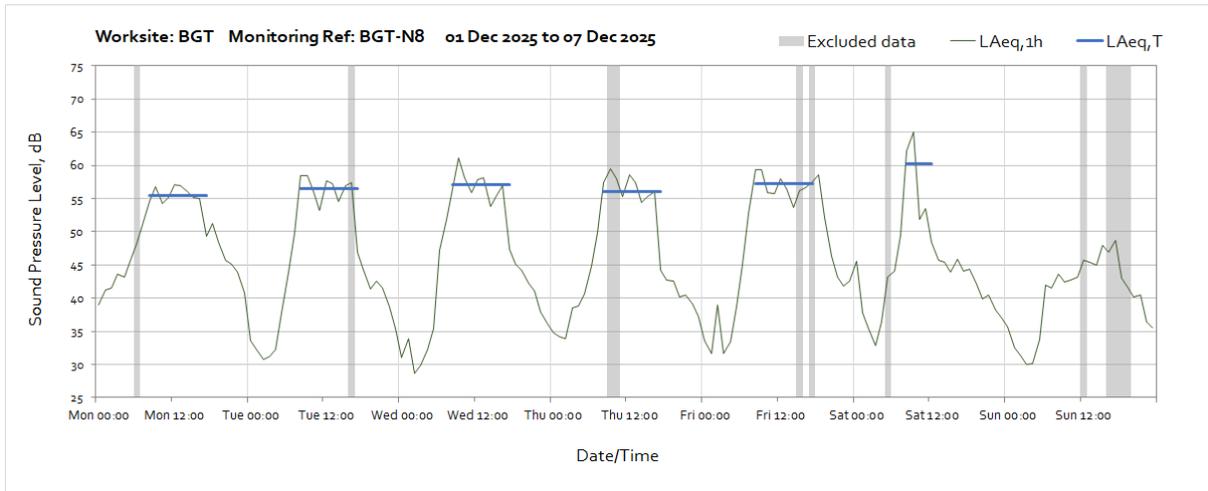
The following graphs show the hourly measured ambient noise level $L_{Aeq,1h}$ and, where relevant, the averaged noise level $L_{Aeq,T}$ values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured for part of the period, which are not representative of HS2 construction works, have been greyed out and excluded from the calculation of the $L_{Aeq,T}$ values in in Table 3 of the main report.

Worksite: BGT – Monitoring Ref: BGT-N5

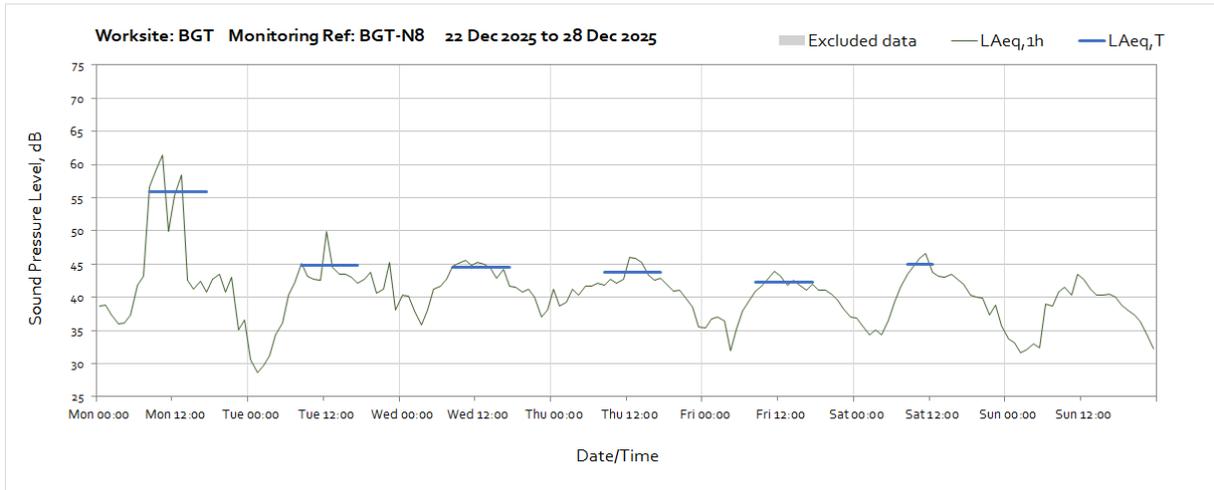




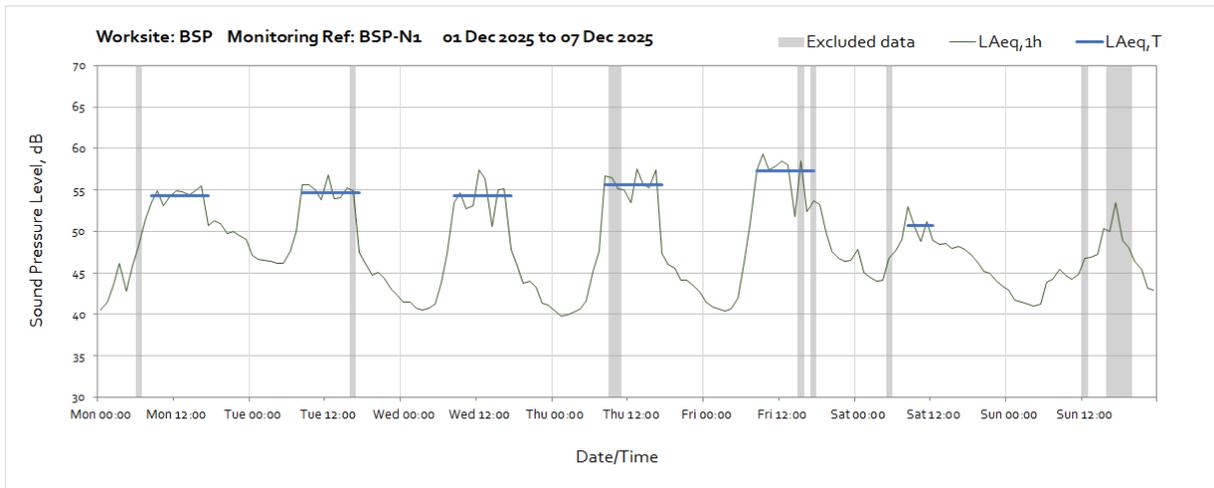
Worksite: BGT - Monitoring Ref: BGT-N8

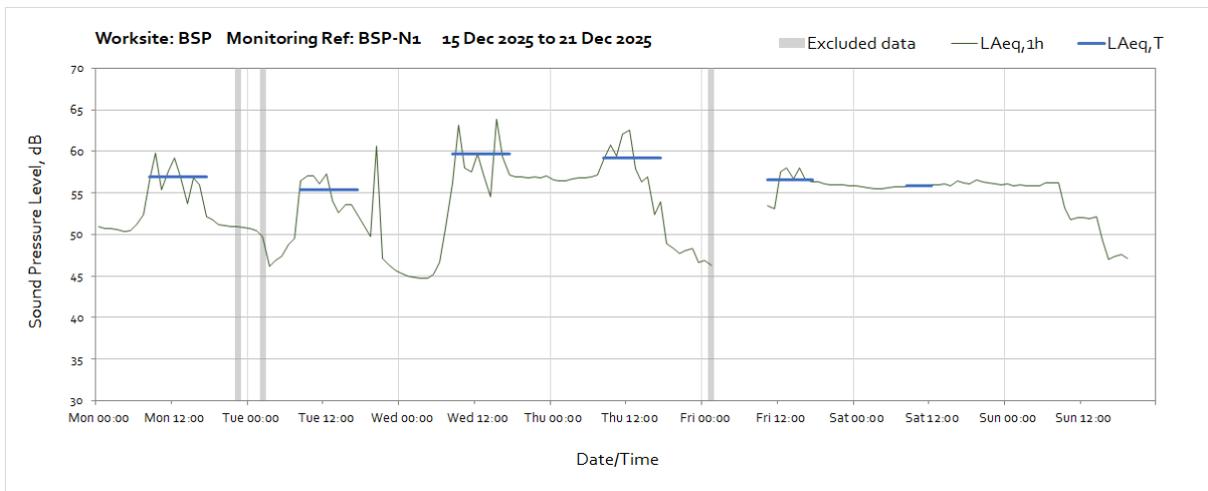
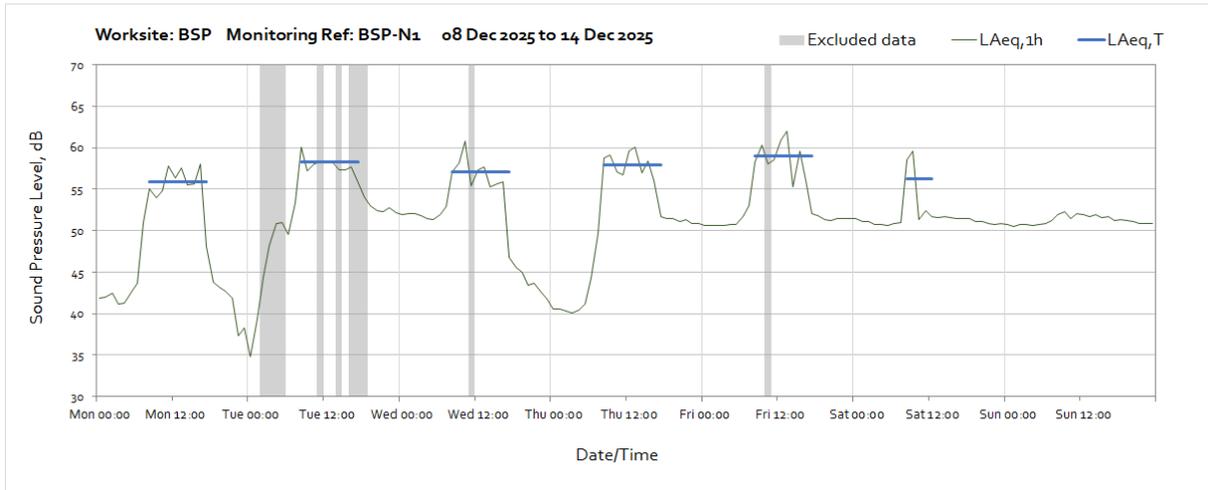


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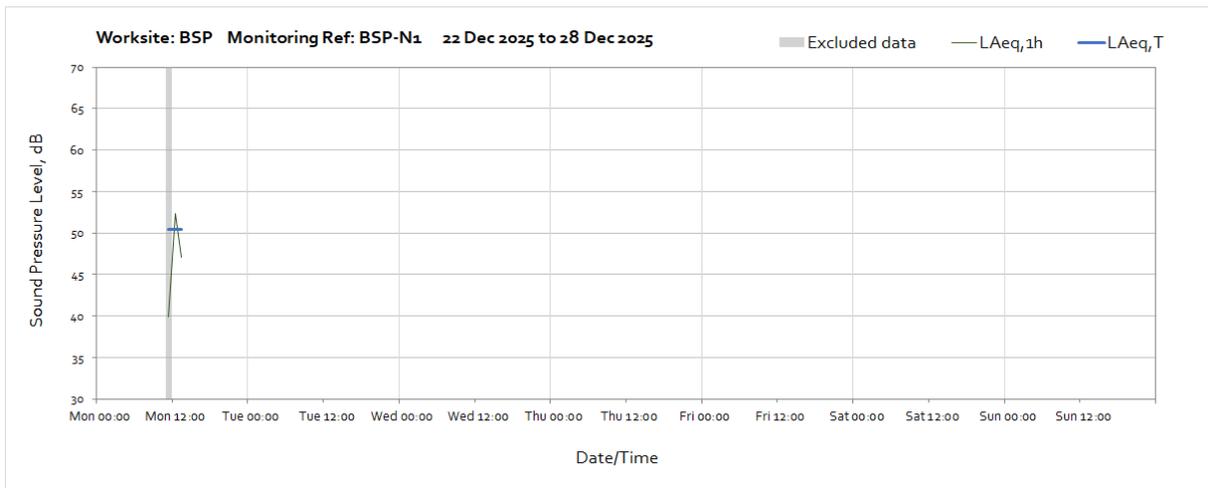


Worksite: BSP – Monitoring Ref: BSP-N1





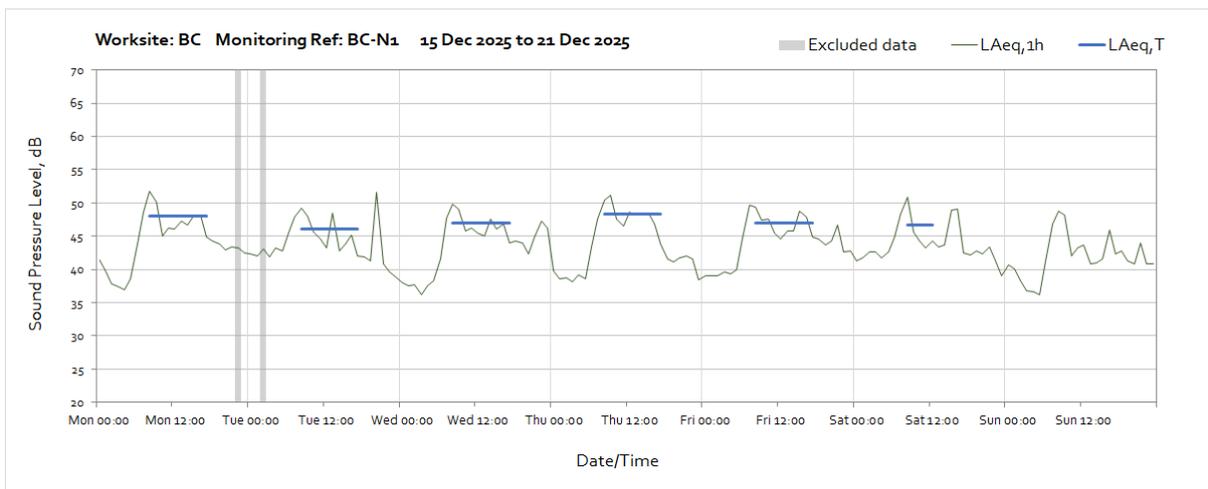
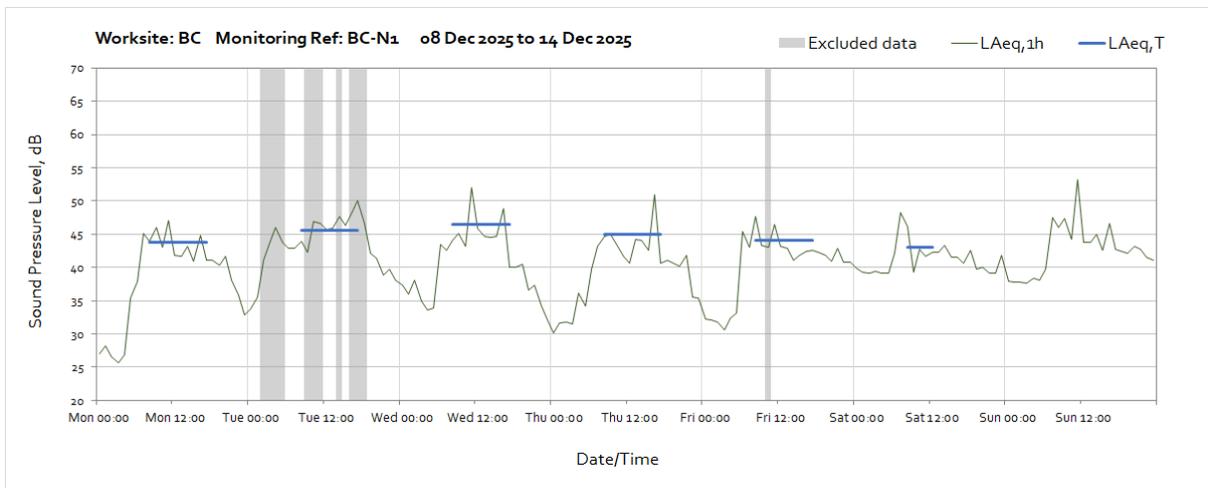
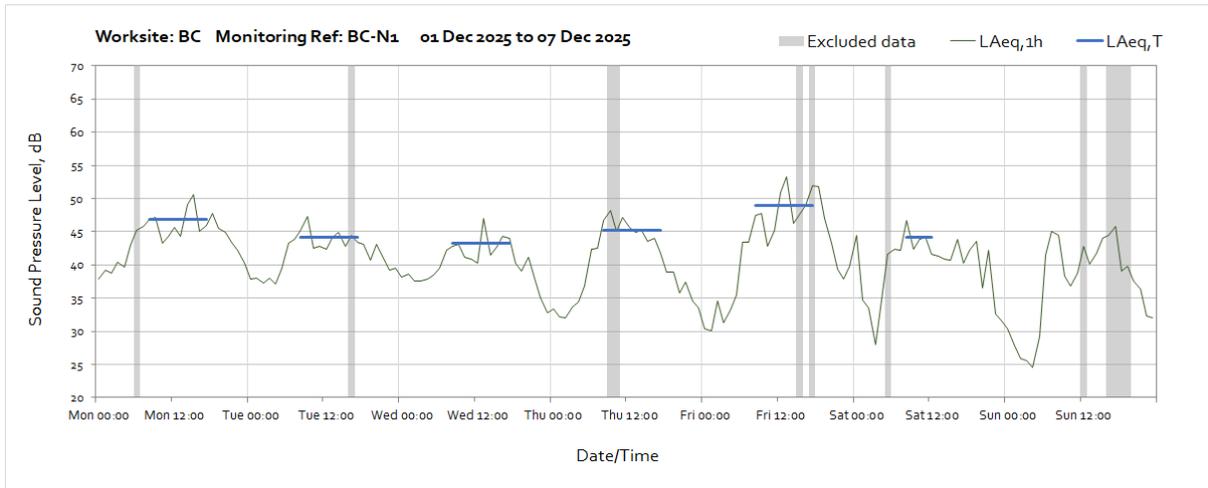
Note: Missing data between 02:00 and 10:00 on Friday 19th December and between 20:00 on Sunday 21st December and 11:00 on Monday 22nd December was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.



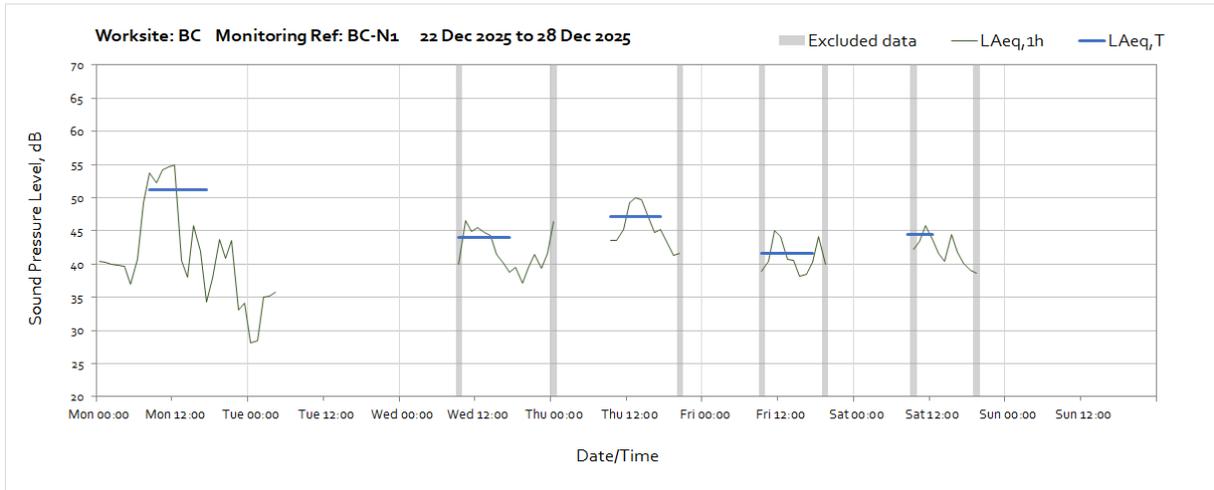
Note: Missing data between 14:00 on Monday 22nd of December and end of the month was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

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Worksite: BC – Monitoring Ref: BC-N1

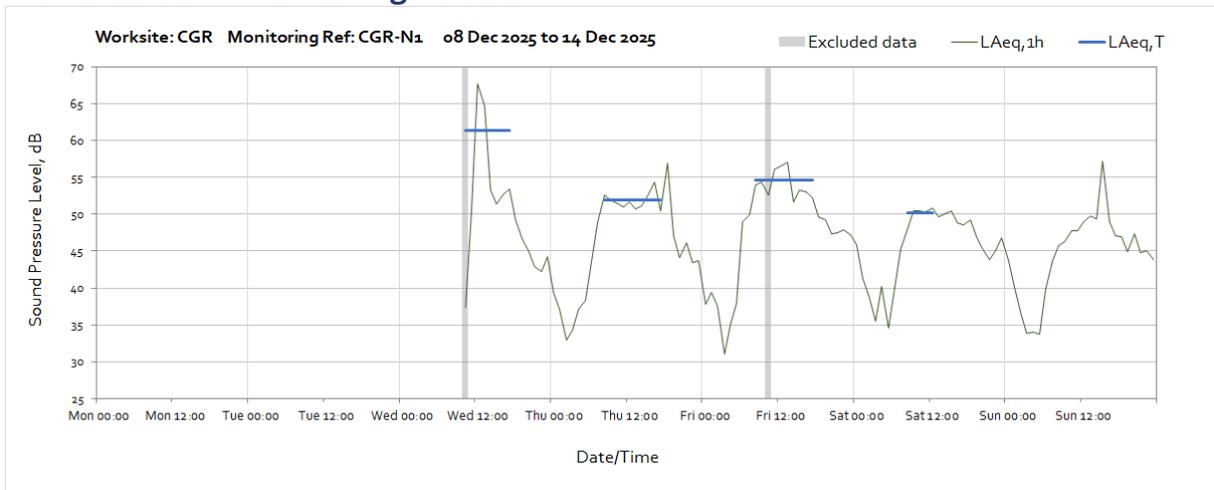


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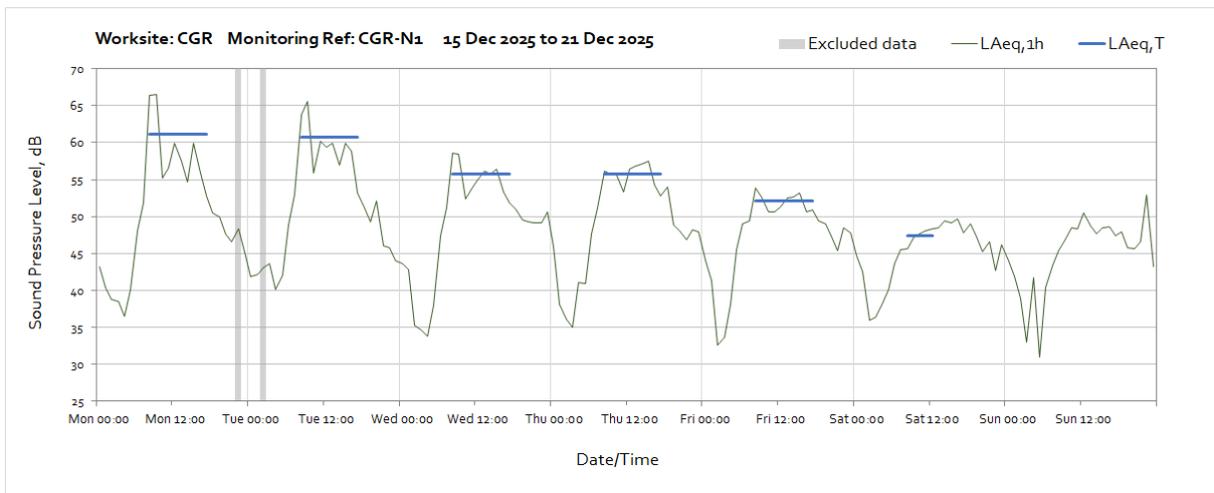


Note: Missing data throughout the week and till end of the month was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

Worksite: CGR – Monitoring Ref: CGR-N1

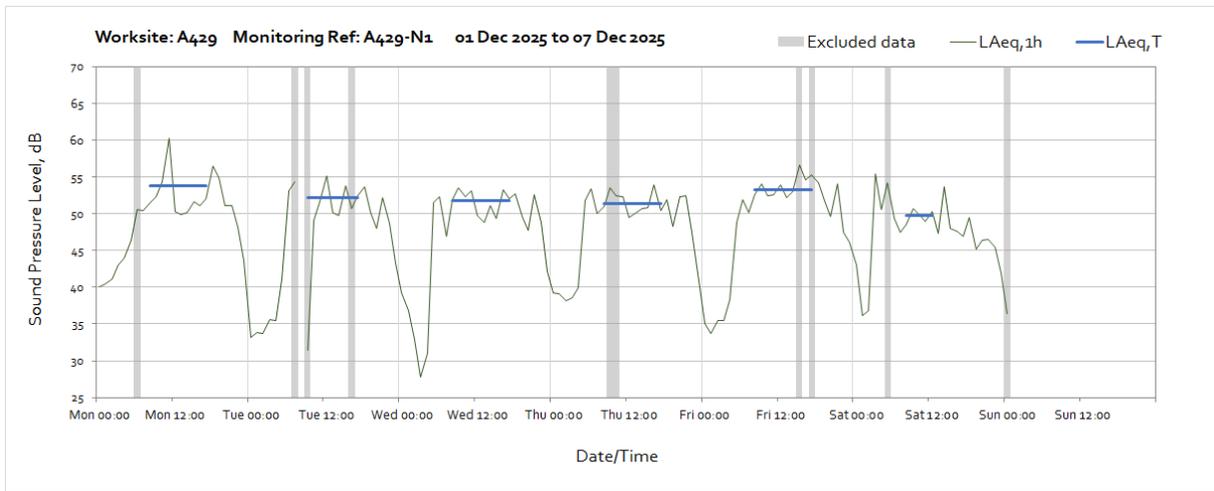


Note: The monitor was installed on Wednesday 10th December.

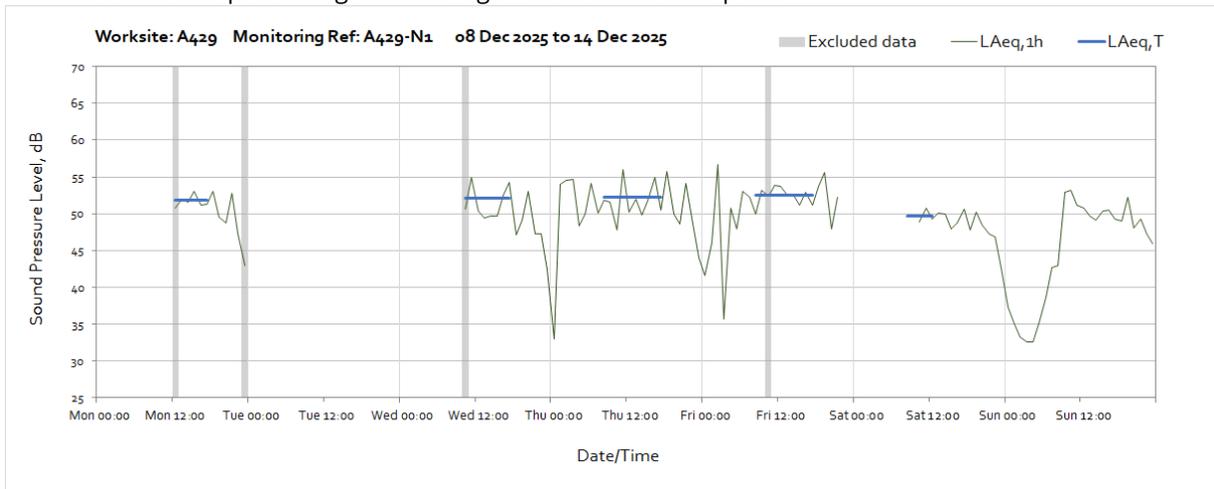




Worksite: A429 – Monitoring Ref: A429-N1

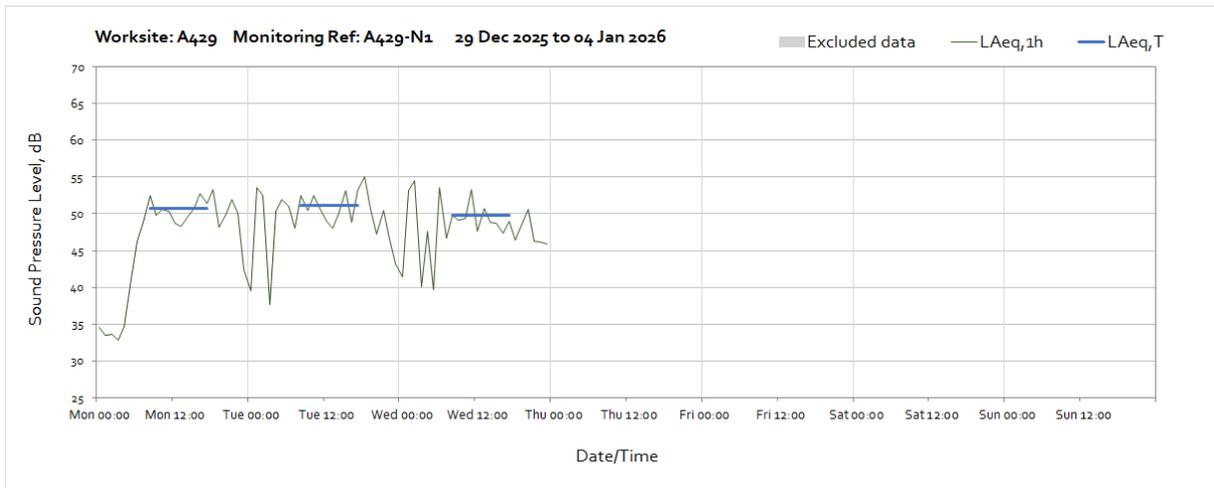
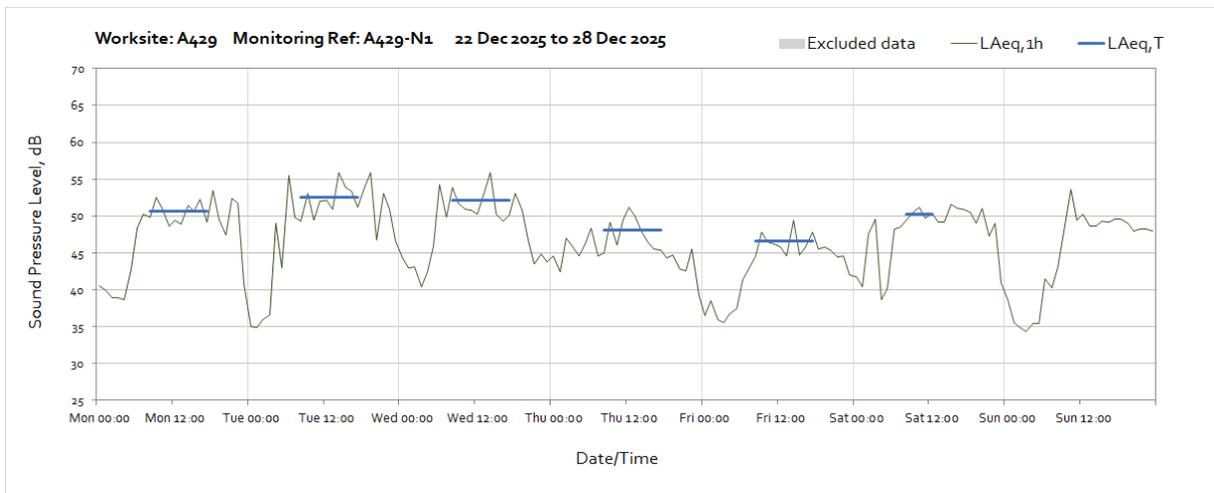
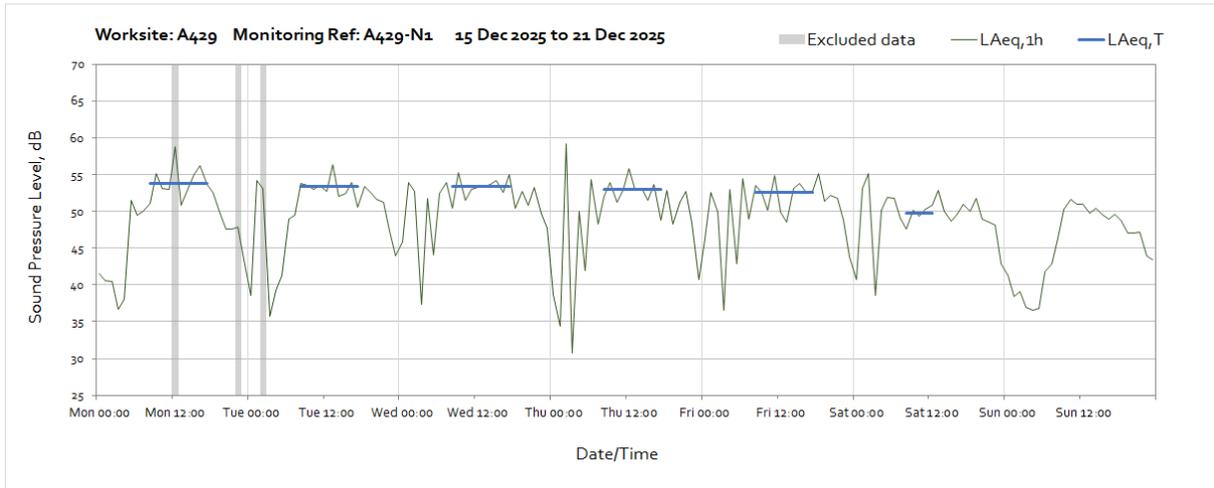


Note: Missing data throughout the week was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

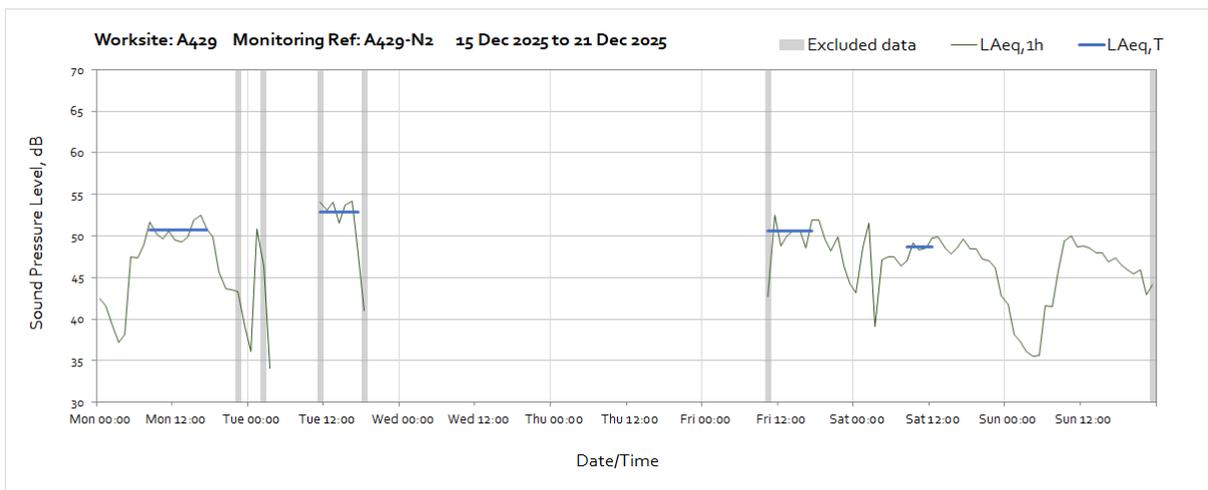
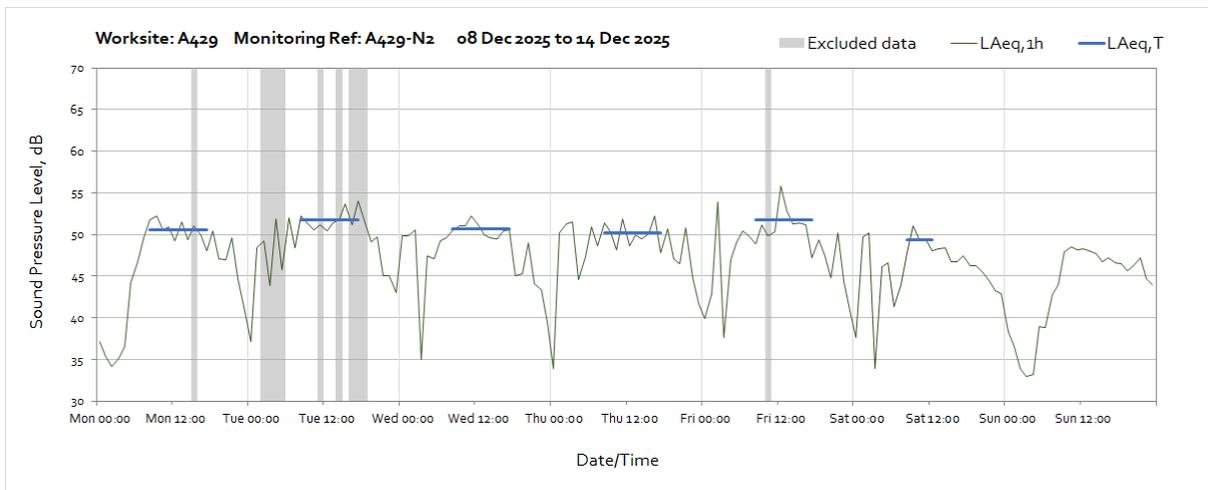
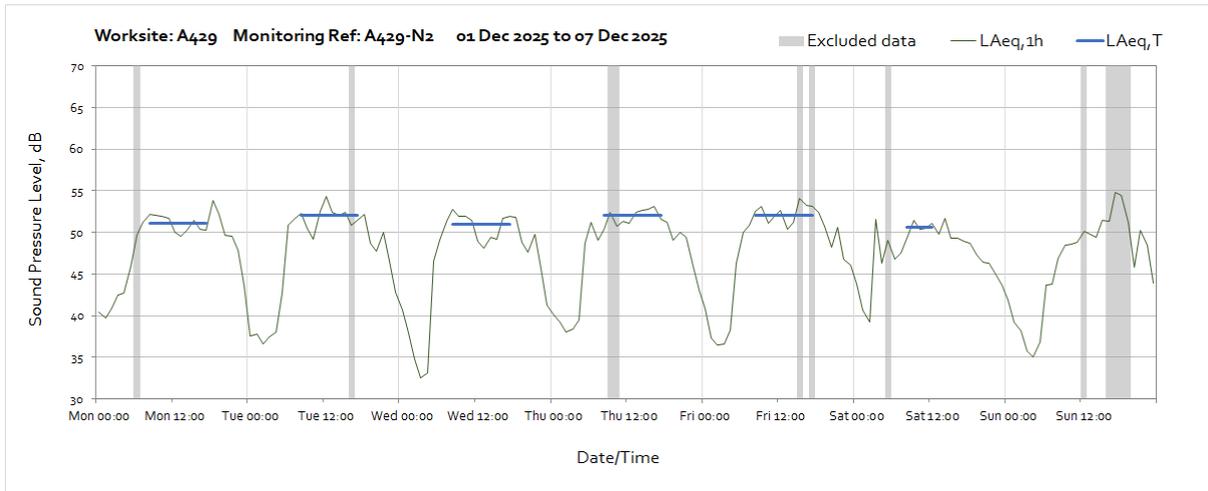


Note: Missing data throughout the week was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

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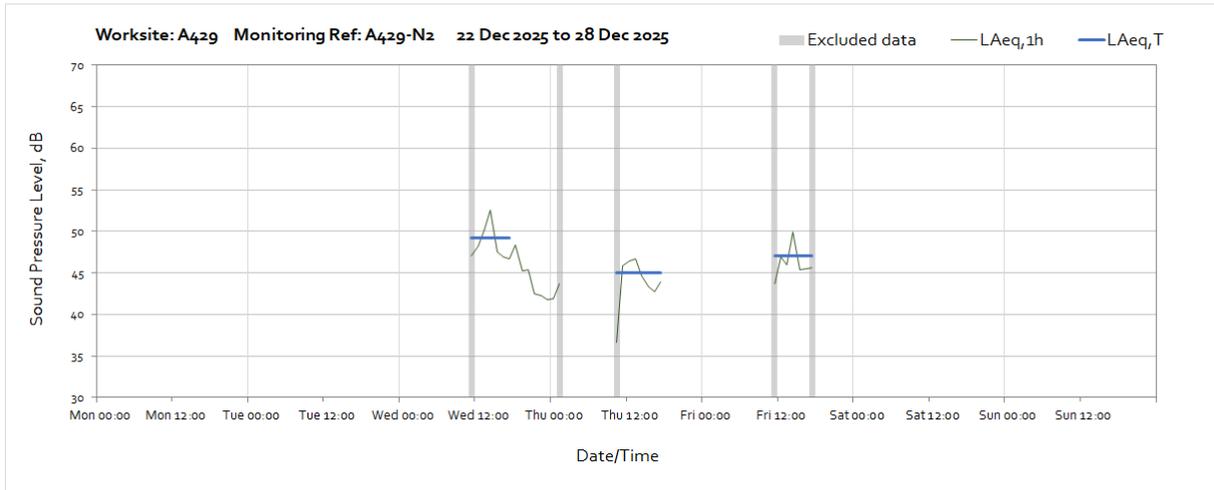


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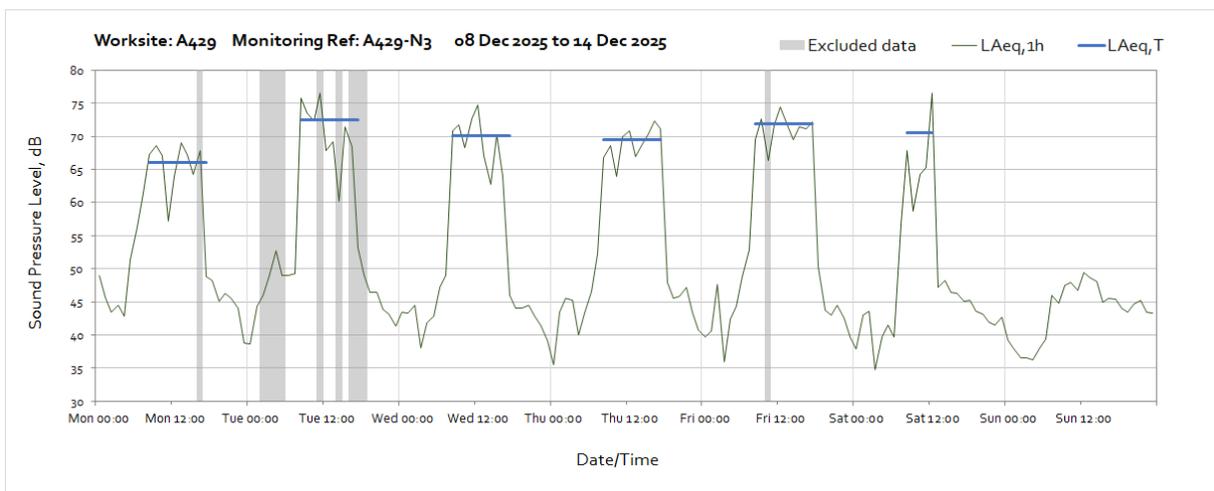
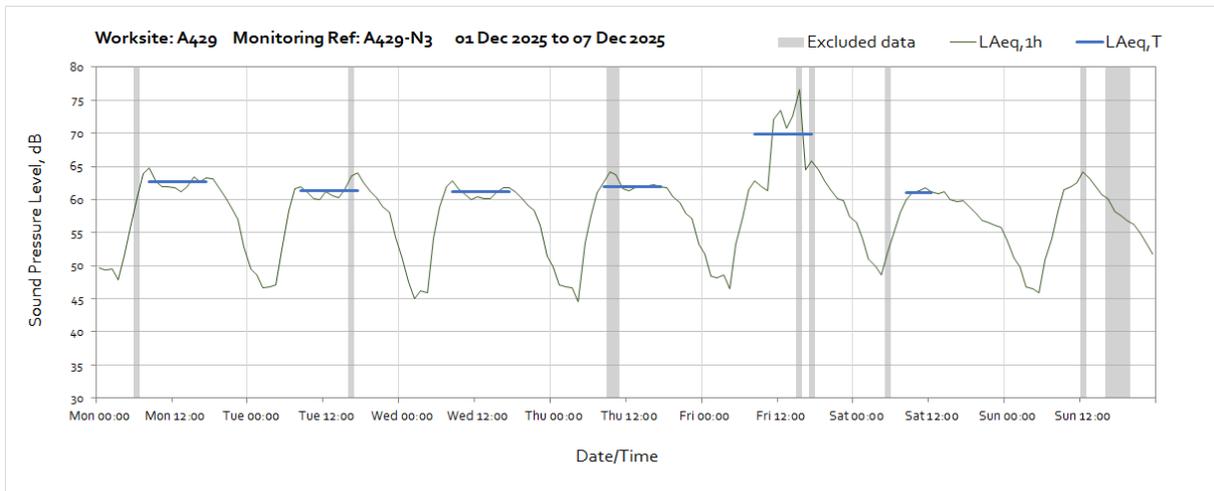
Note: Missing data throughout the week was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

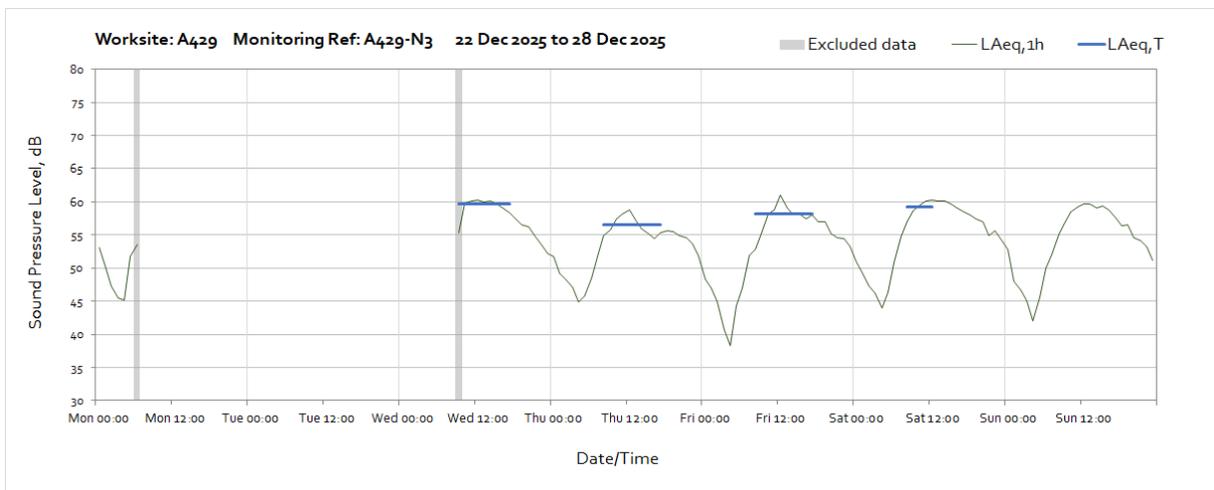
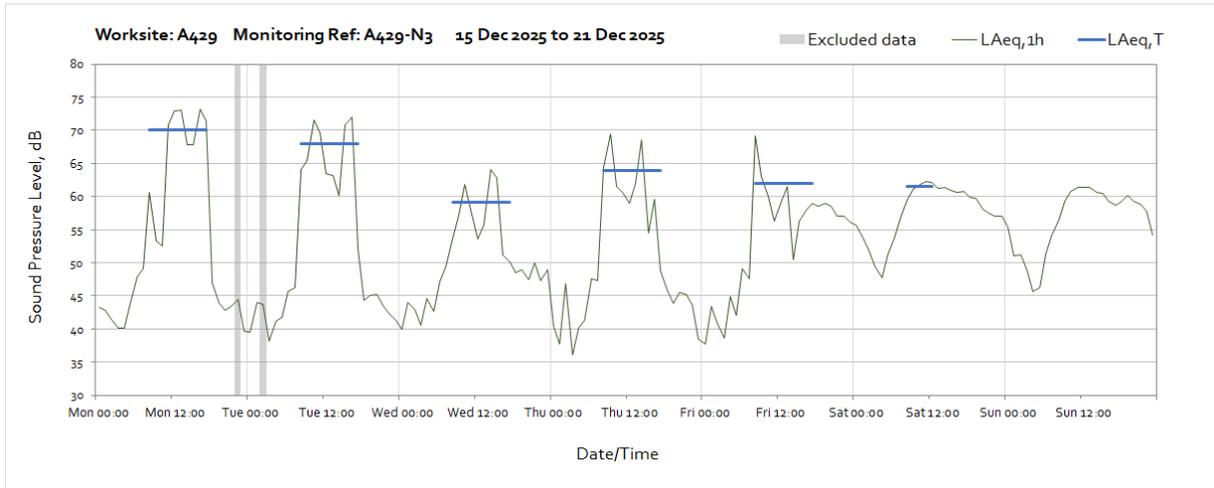
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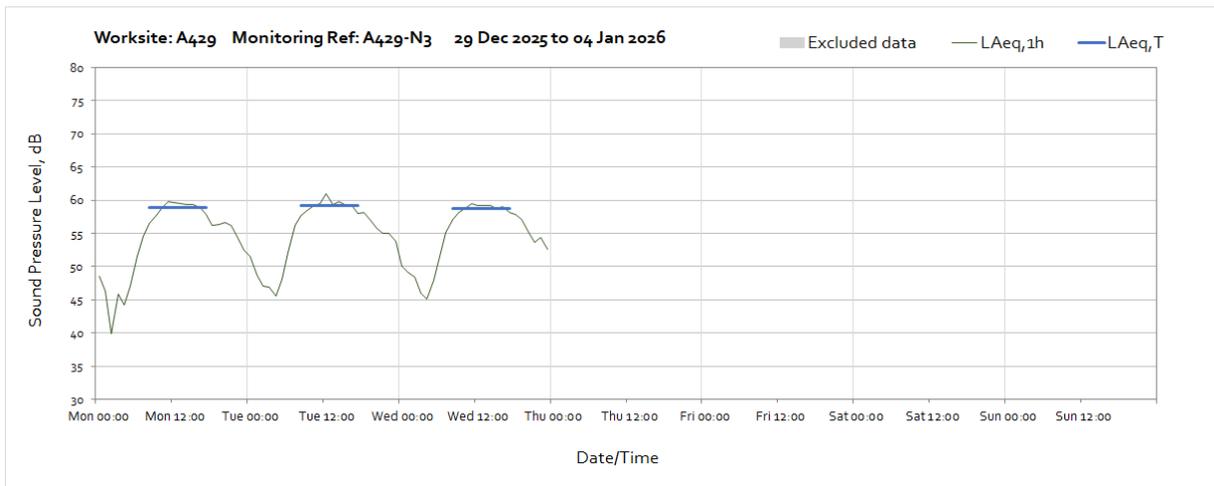
Note: Missing data throughout the week and till end of the month was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

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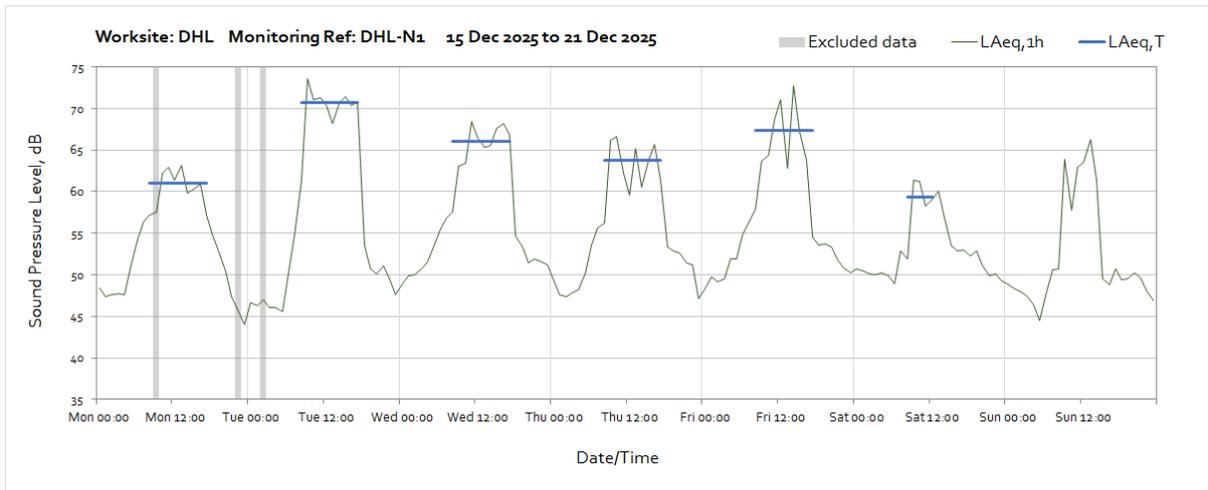
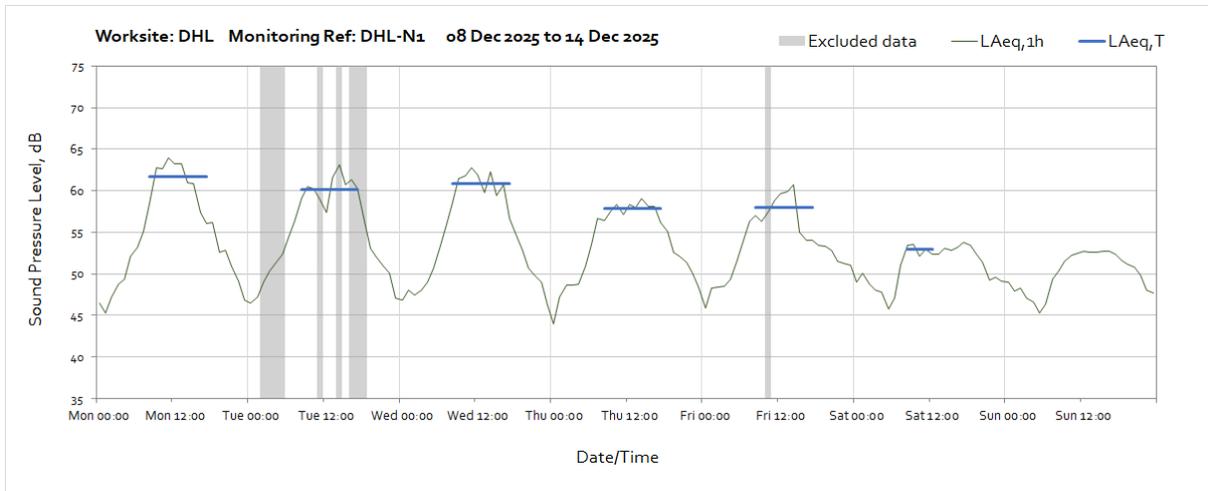
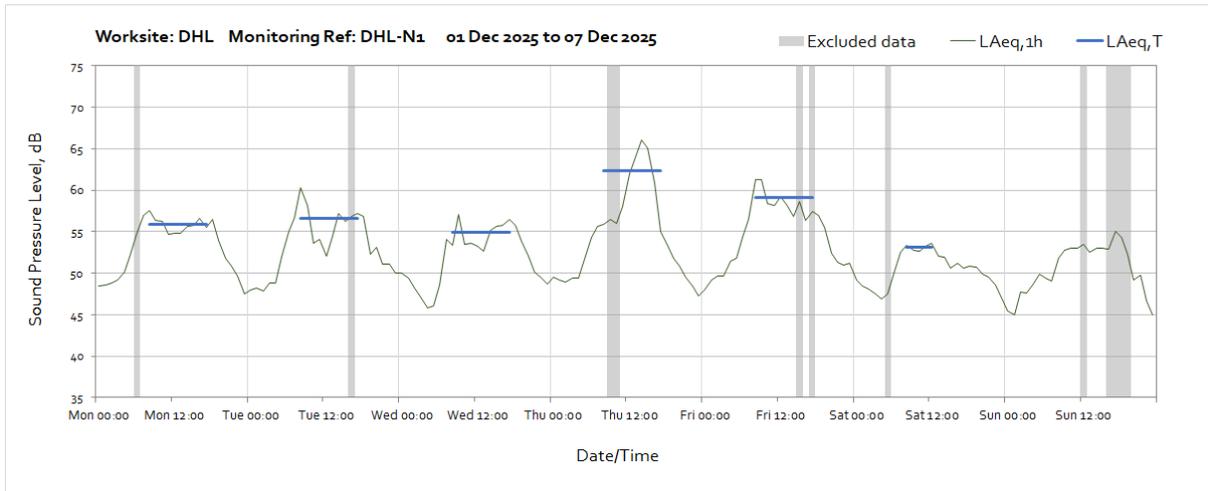




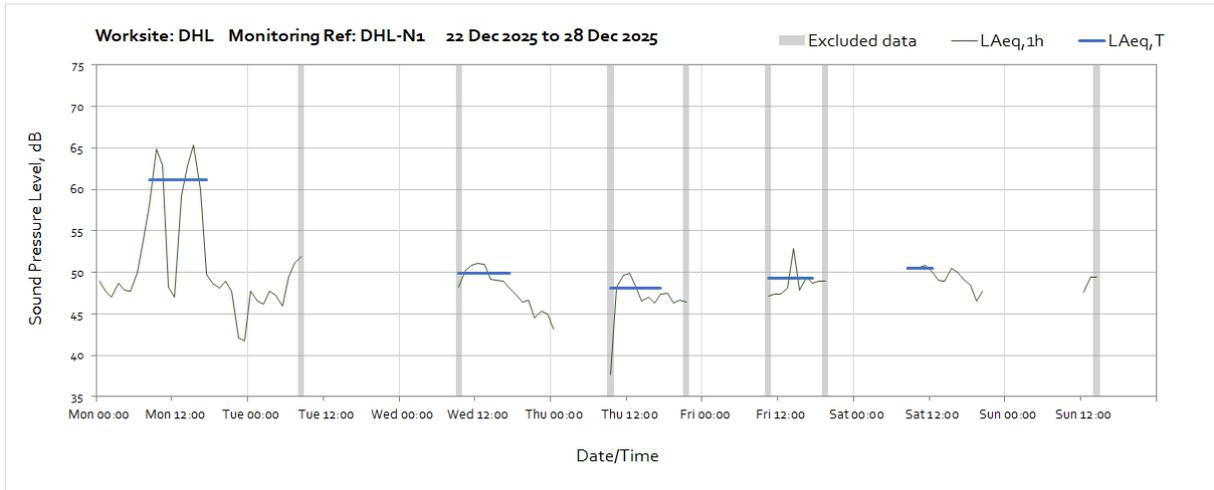
Note: Missing data between 07:00 on Monday 22nd December and 09:00 on Wednesday 24th December was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.



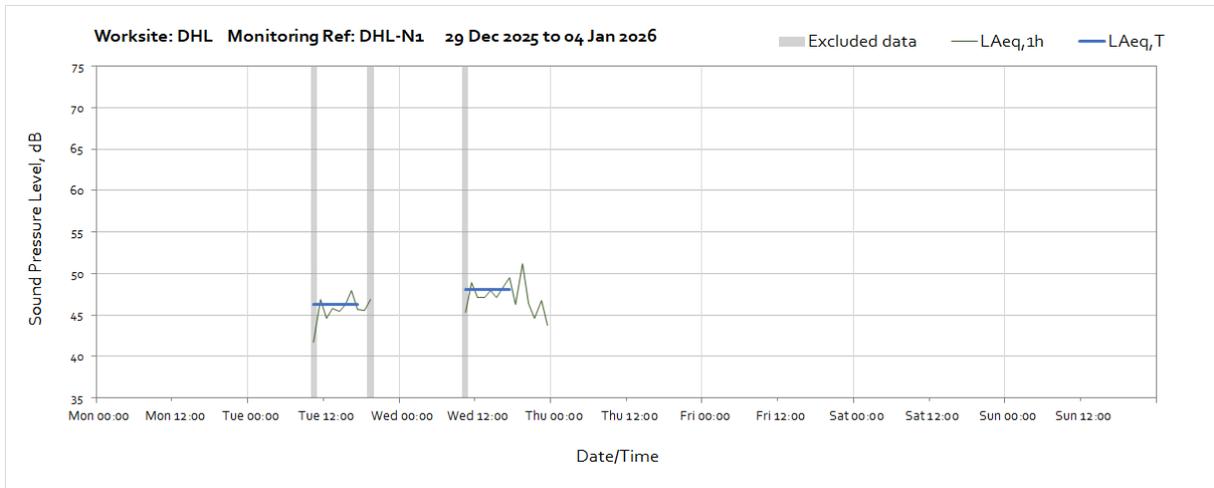
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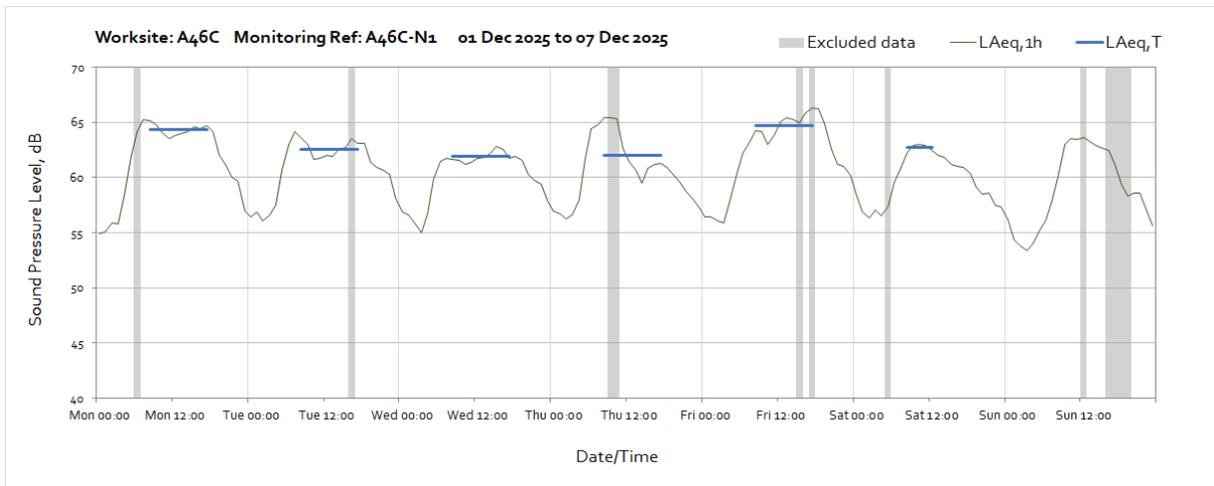


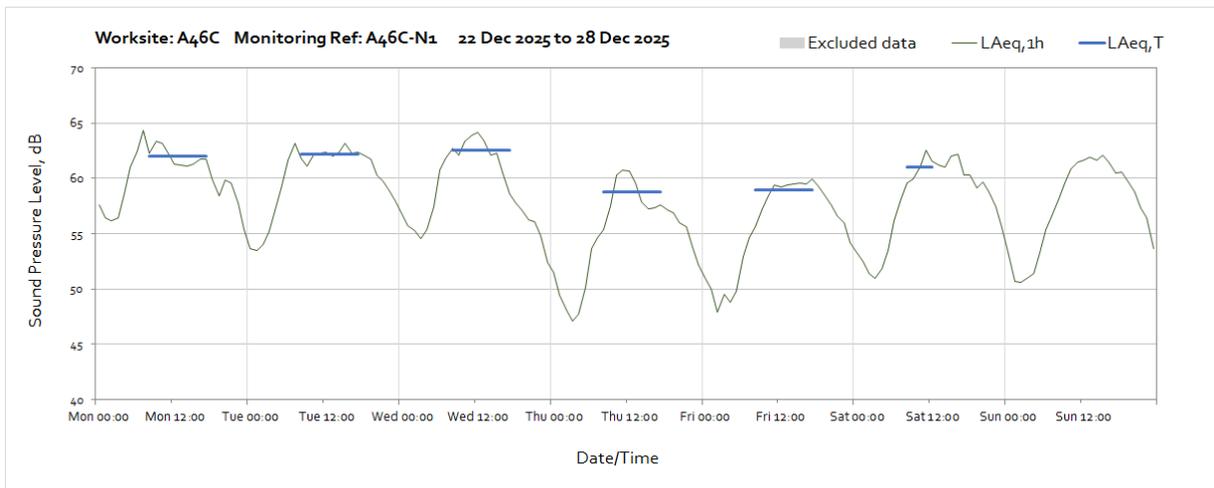
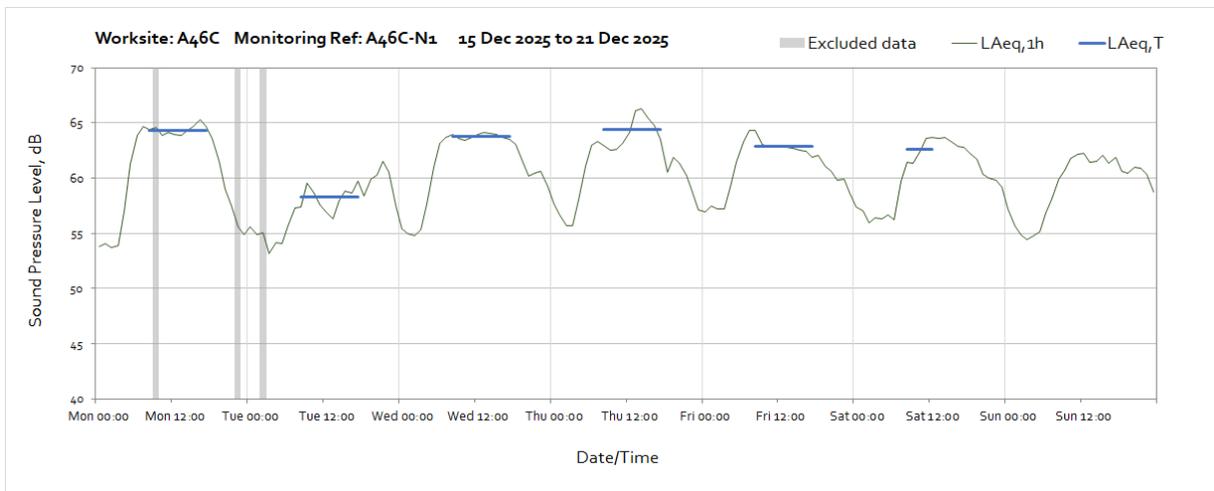
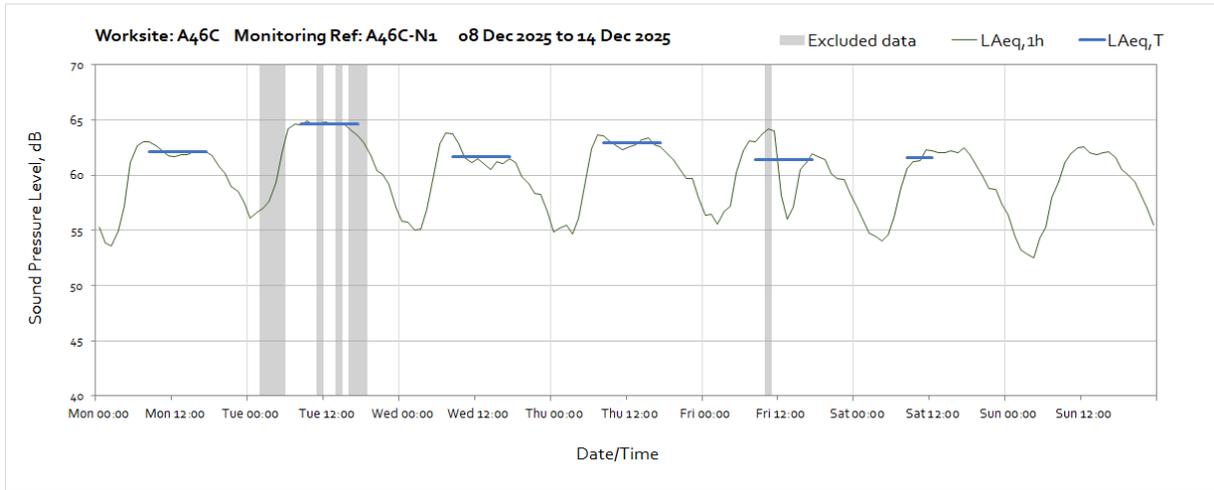
Note: Missing data throughout the week was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

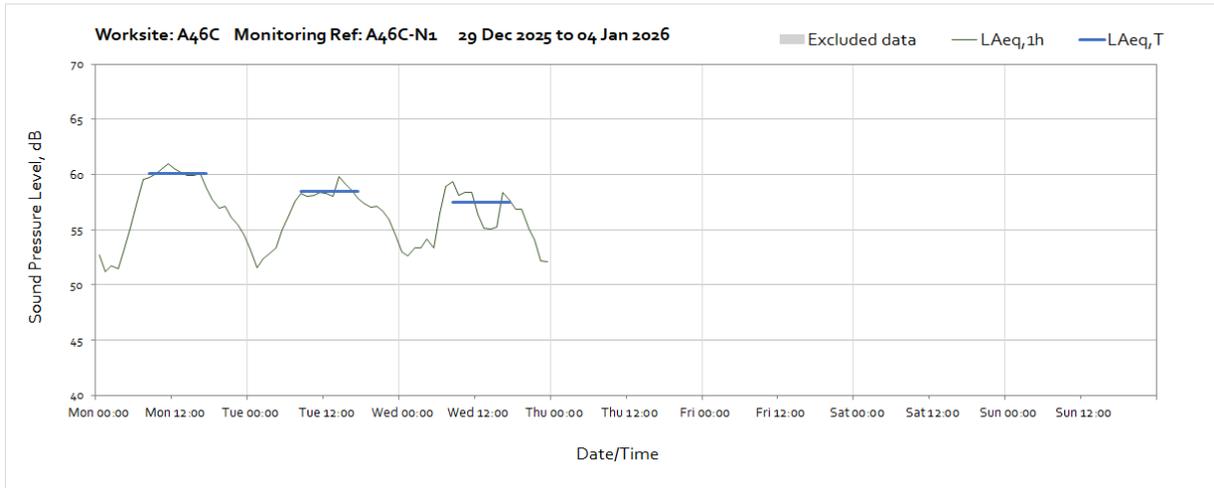


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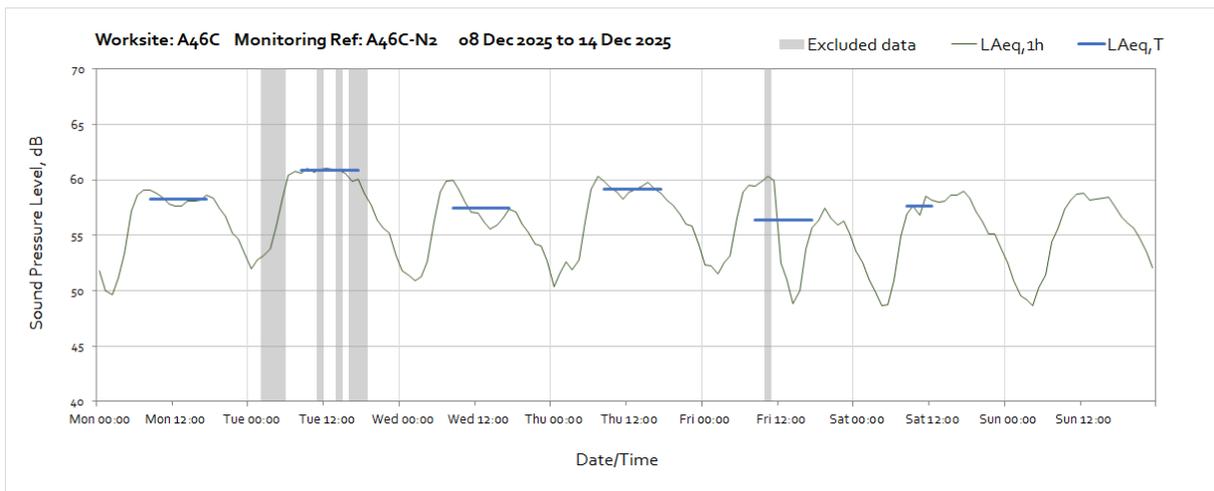
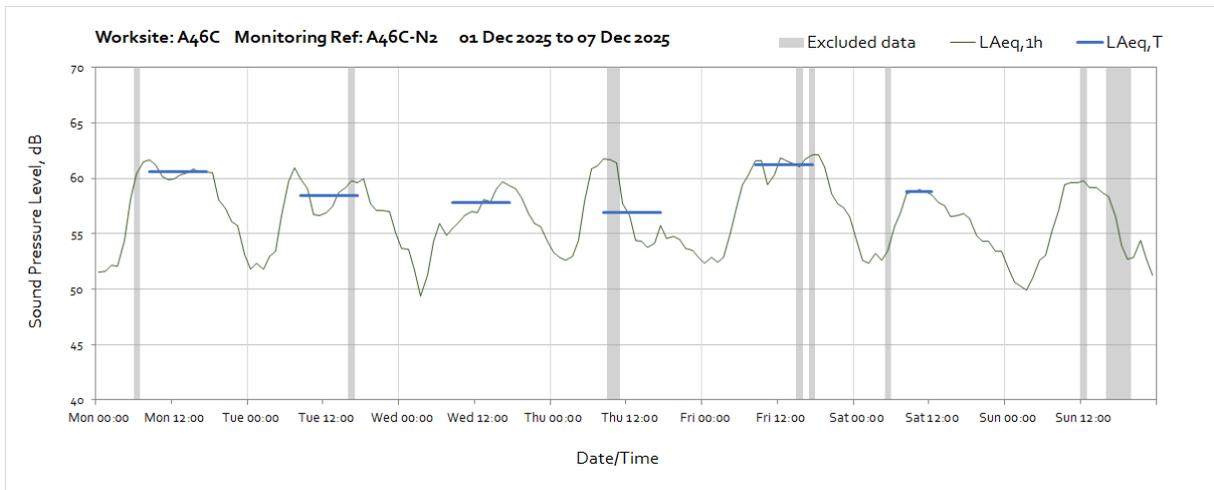
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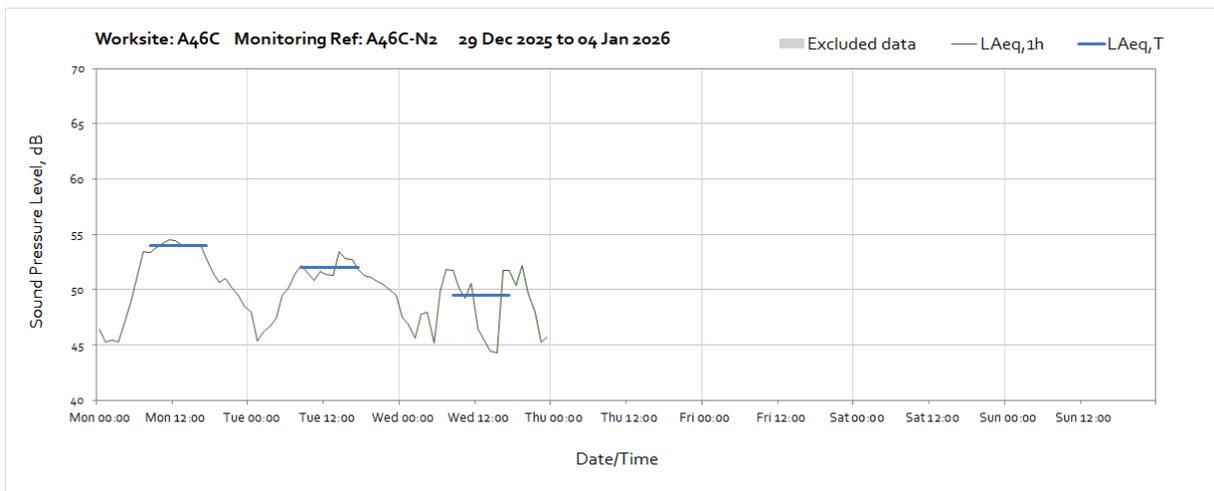
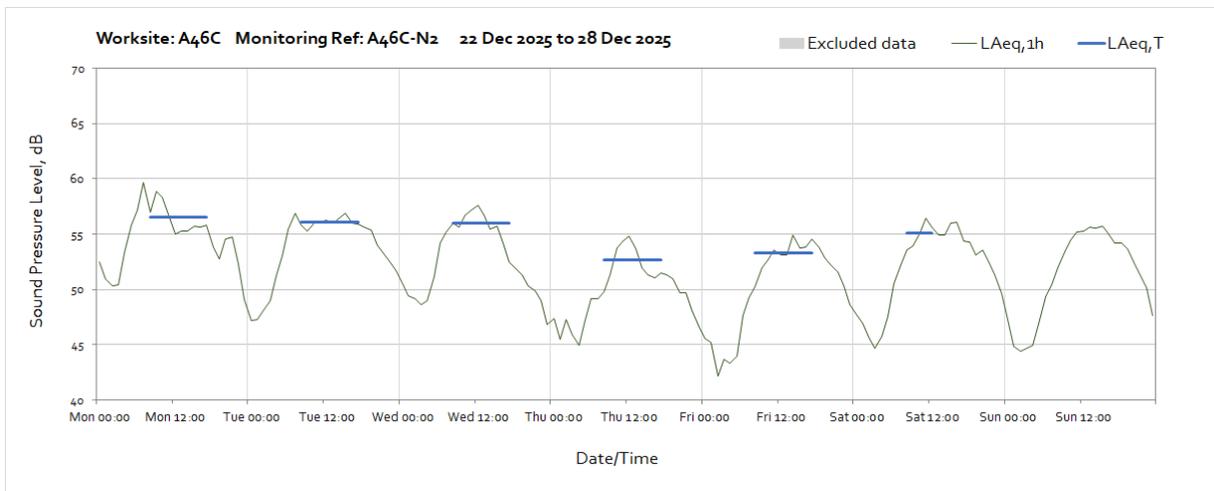
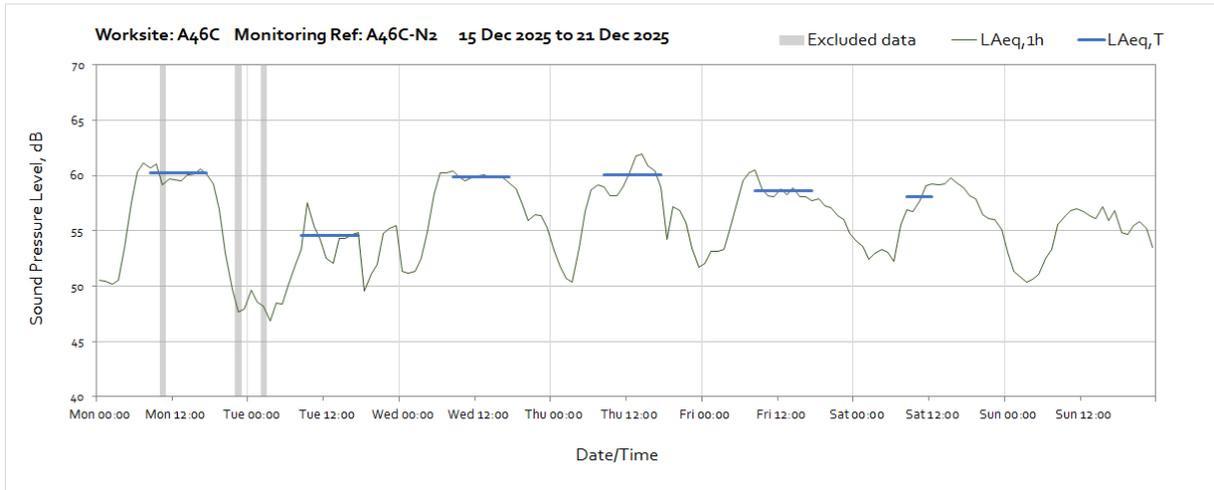




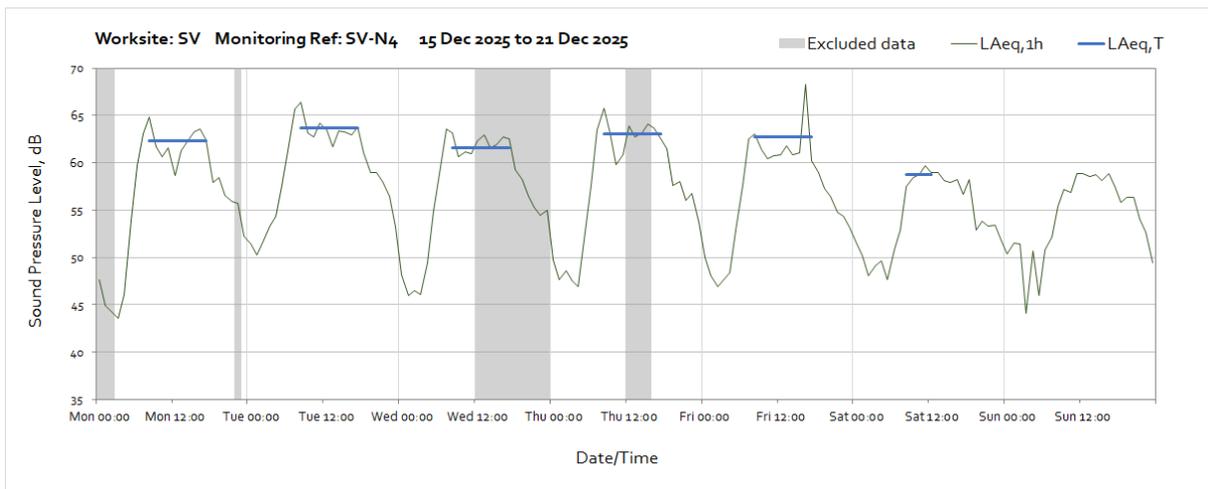
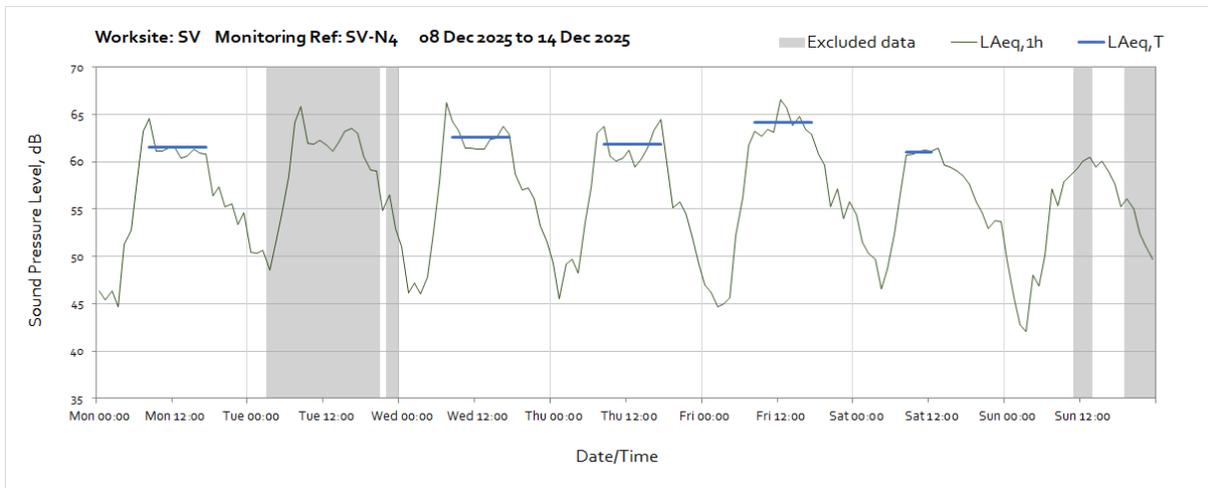
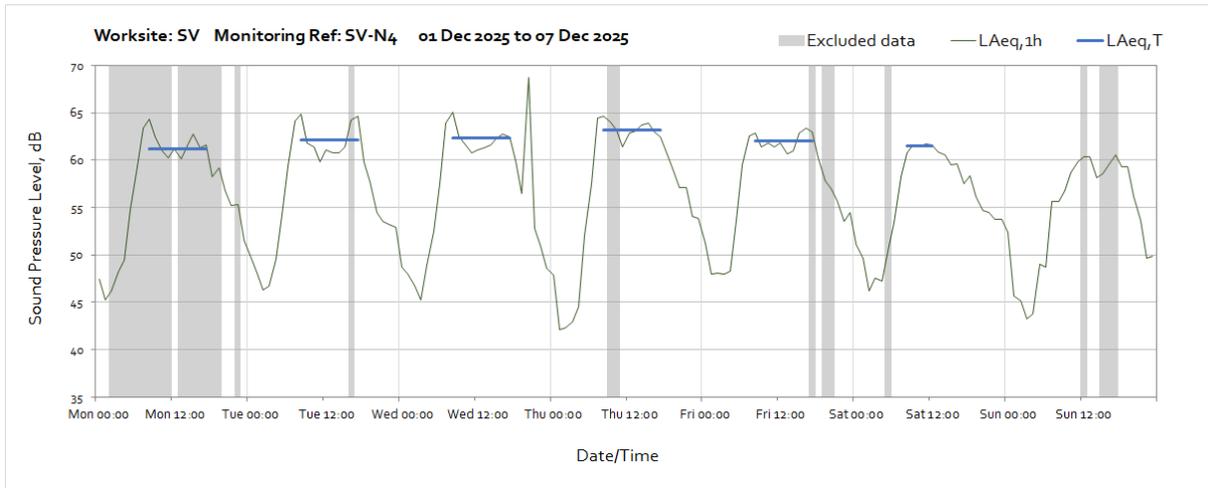


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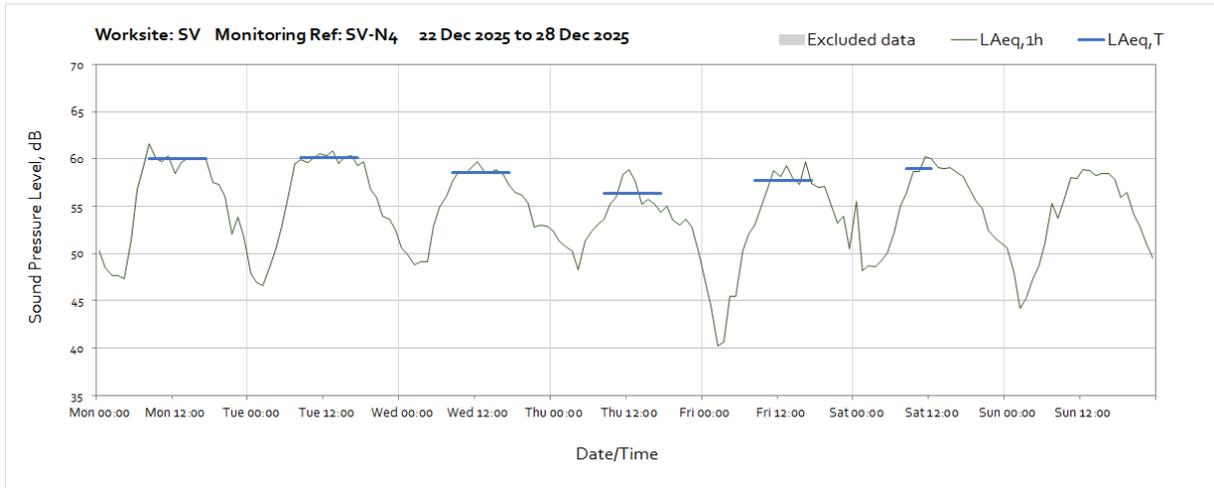




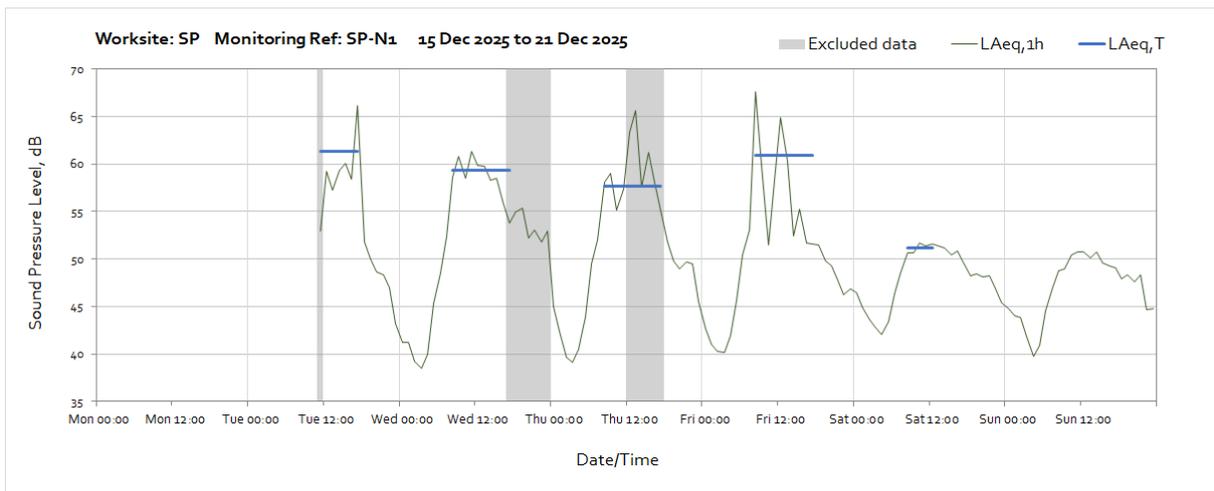
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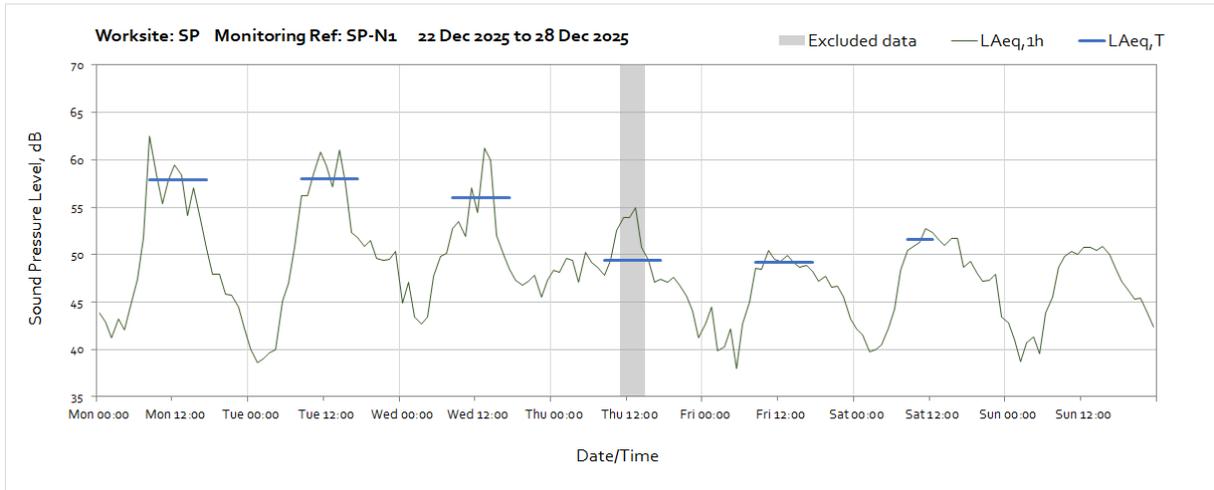
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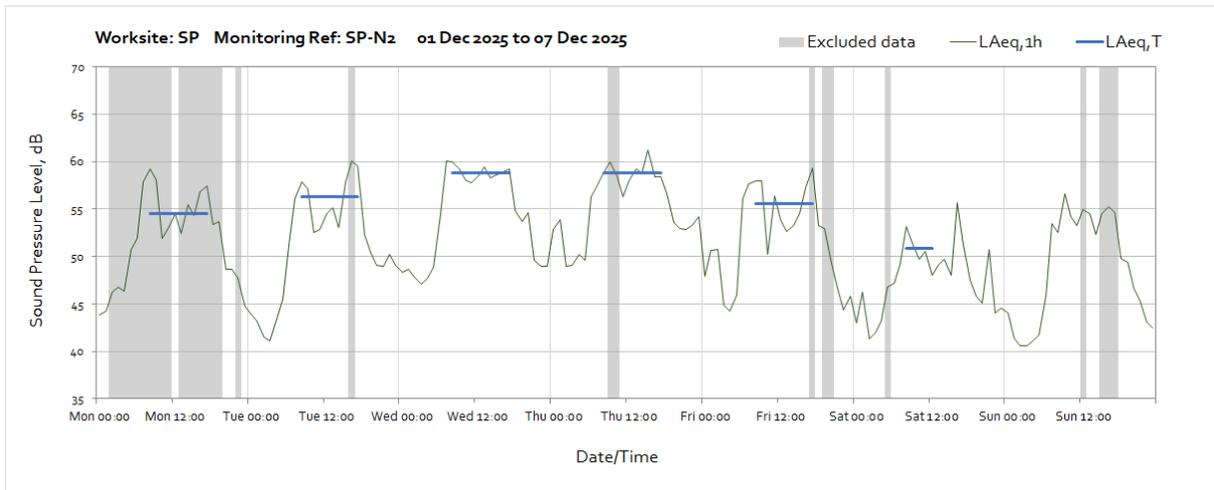
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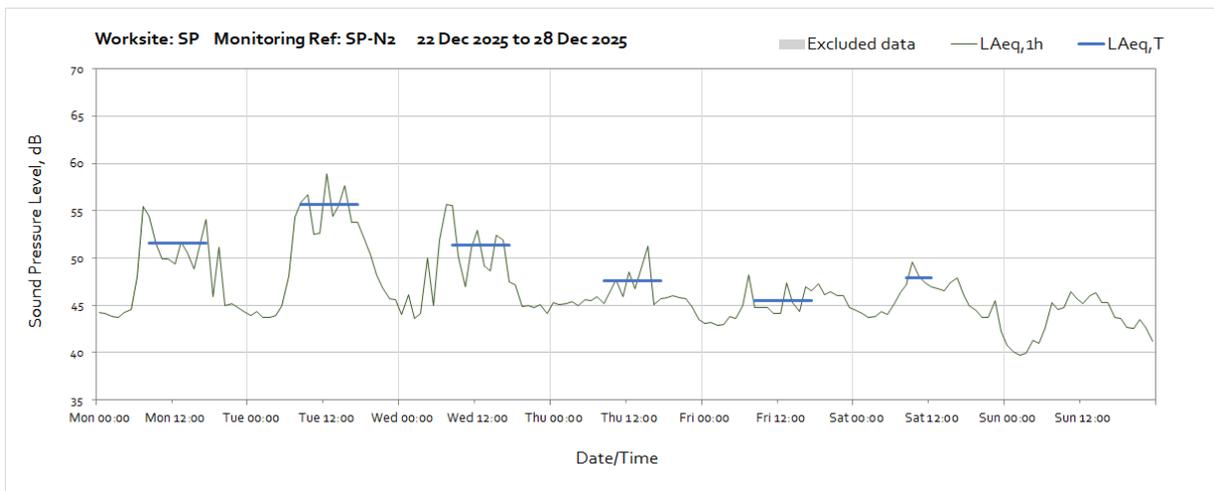
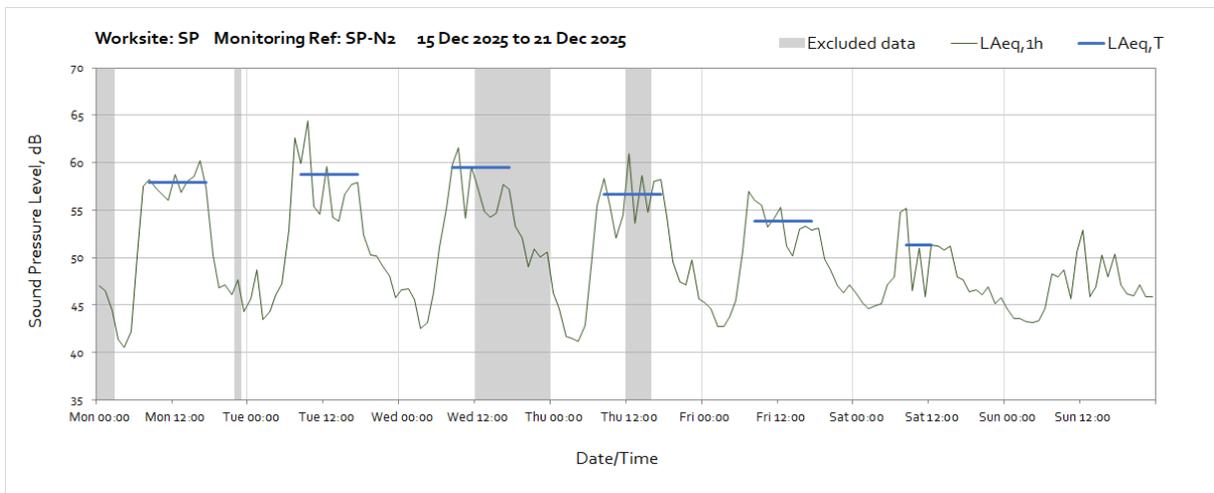
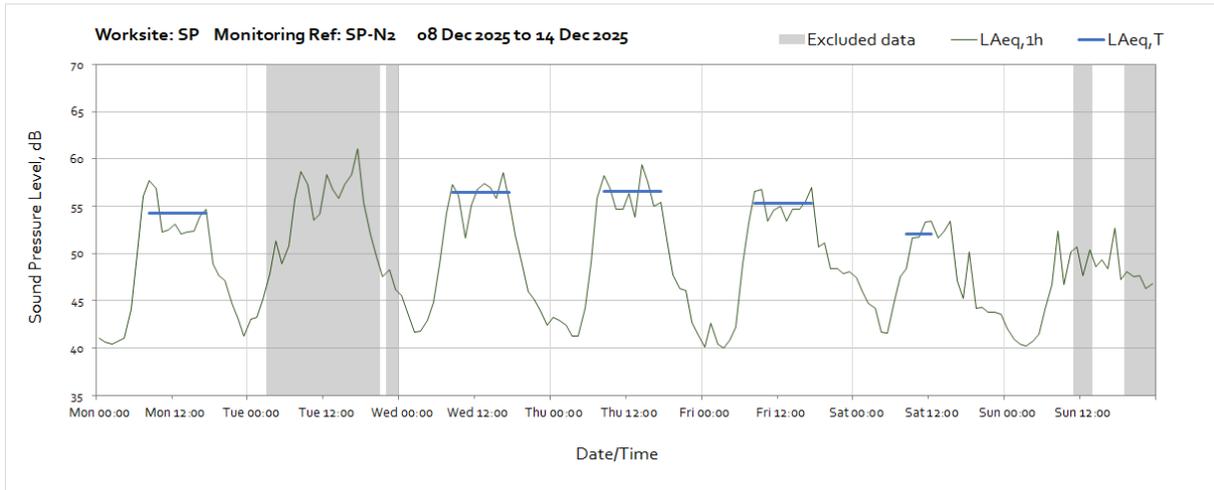


Note: The monitor was swapped out and reinstalled on Tuesday 16th December.



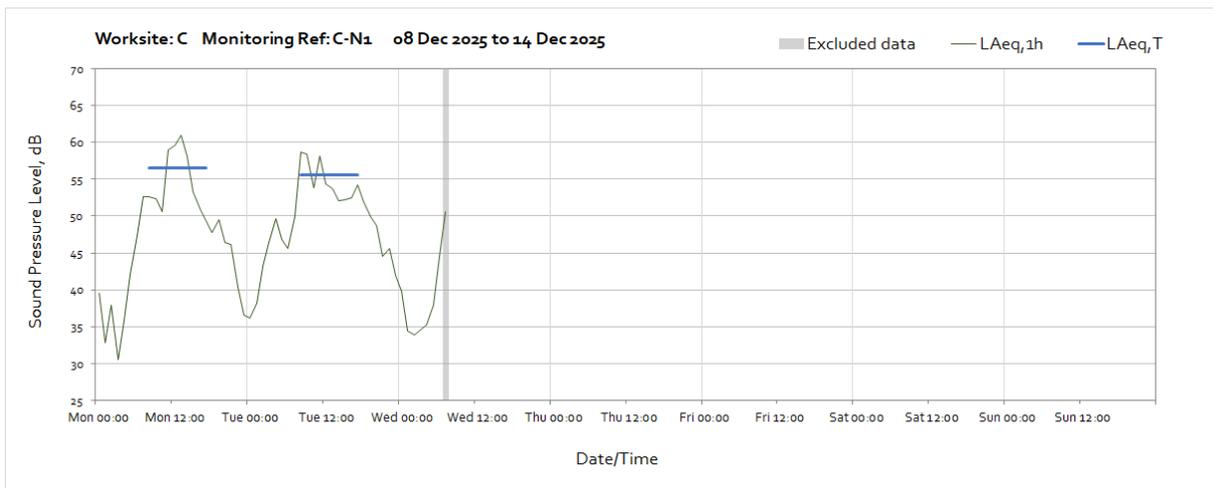
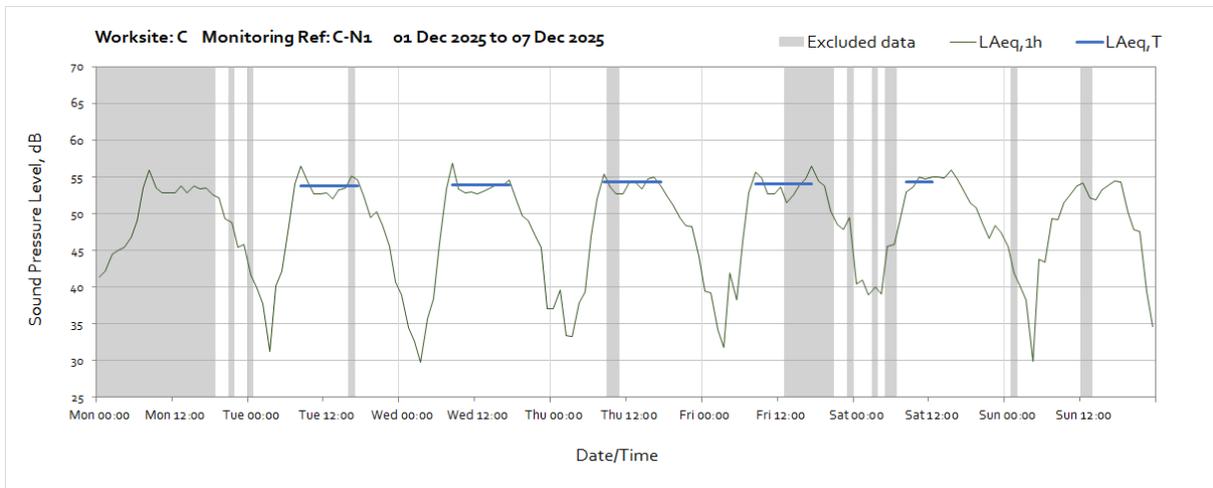
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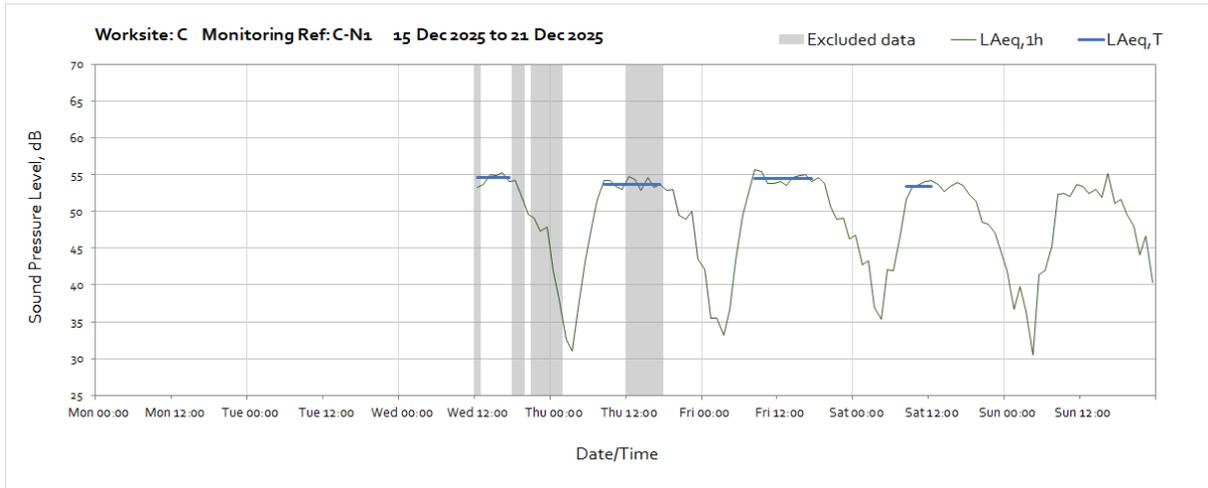




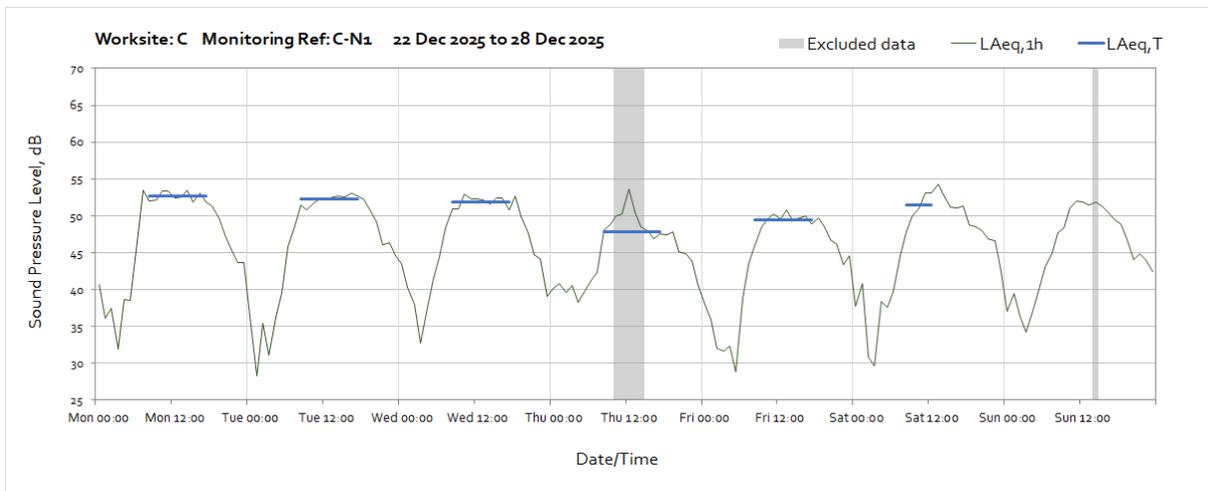
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Note: Missing data between 08:00 on Wednesday 10th December and 12:00 on Wednesday 17th December was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.



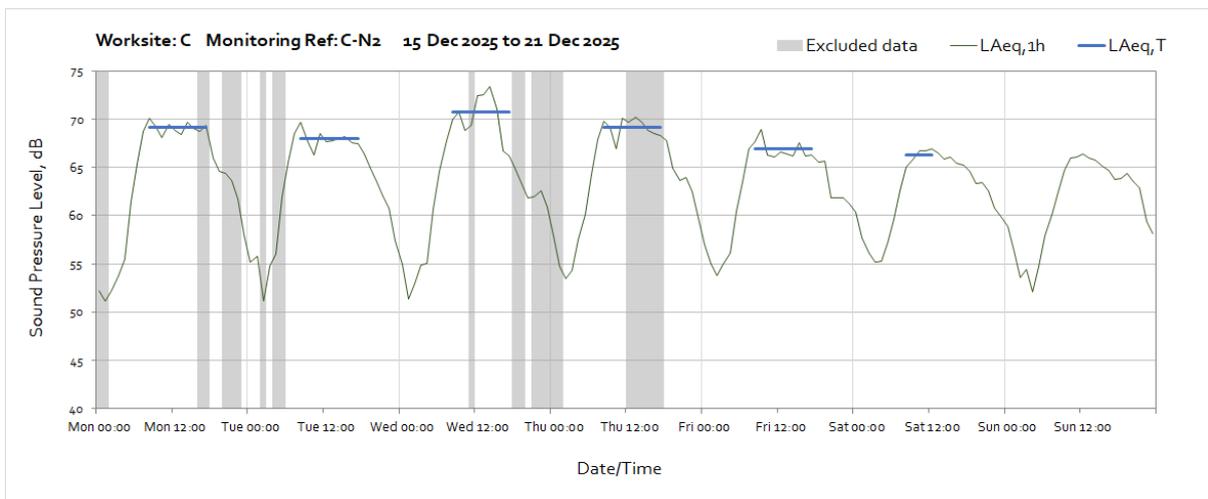
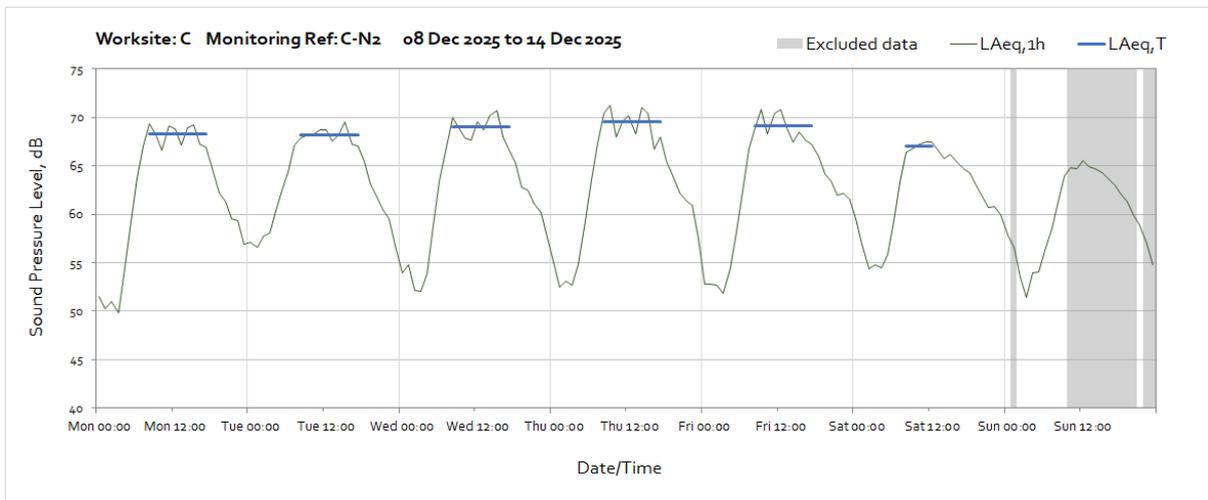
Note: Missing data between 08:00 on Wednesday 10th December and 12:00 on Wednesday 17th December was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.

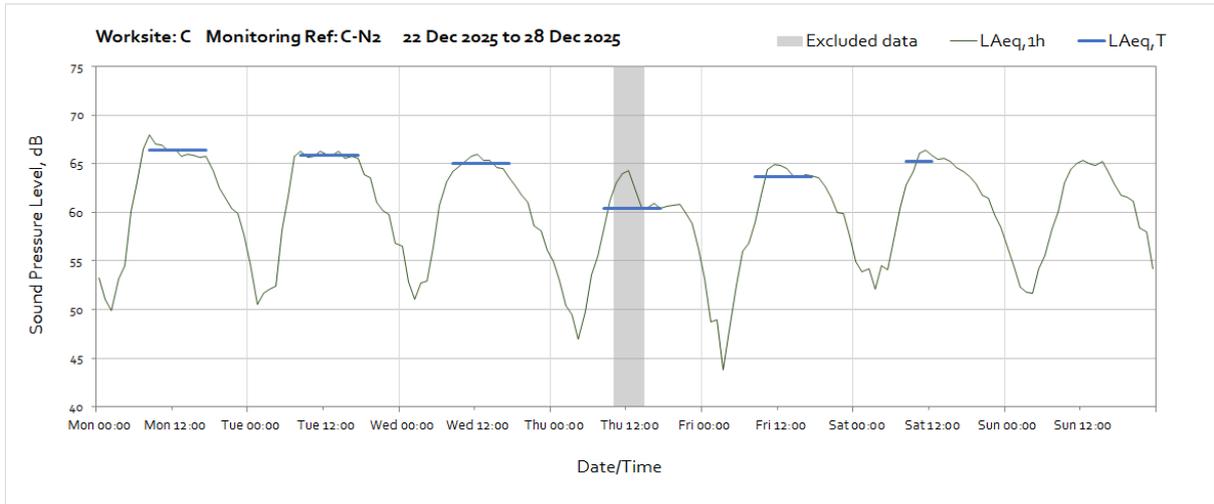


Worksite: C – Monitoring Ref: C-N2

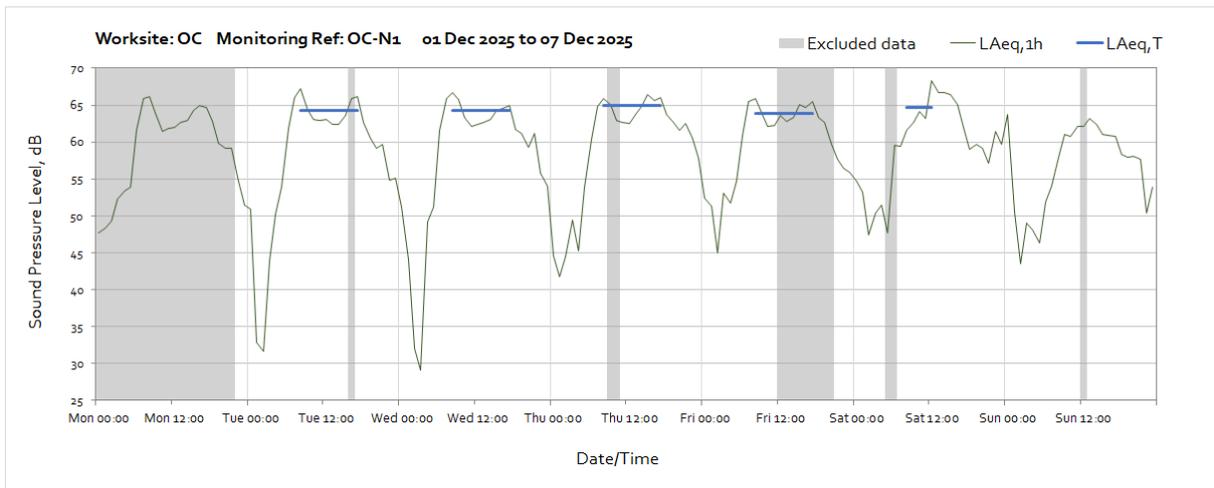


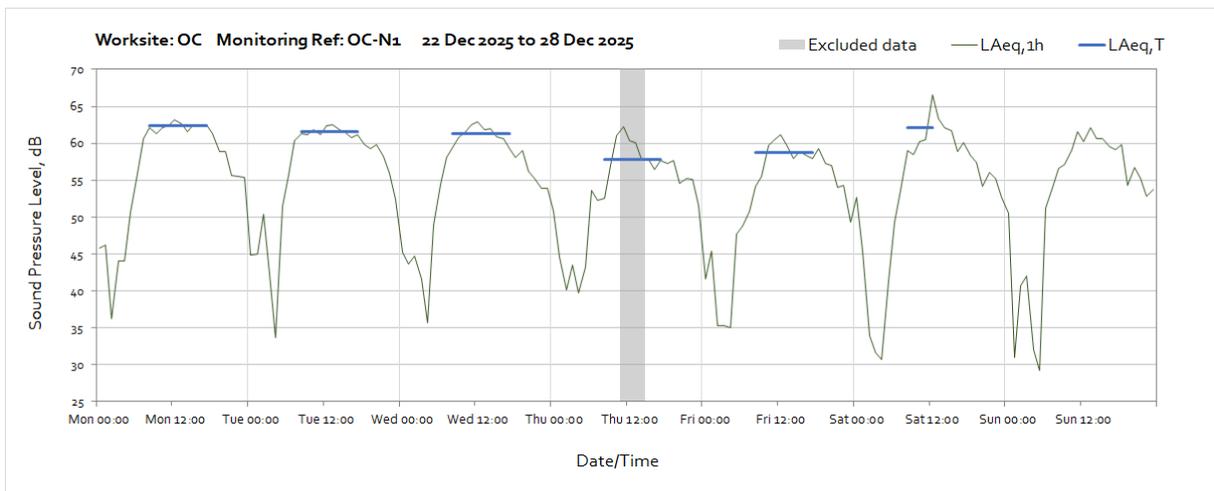
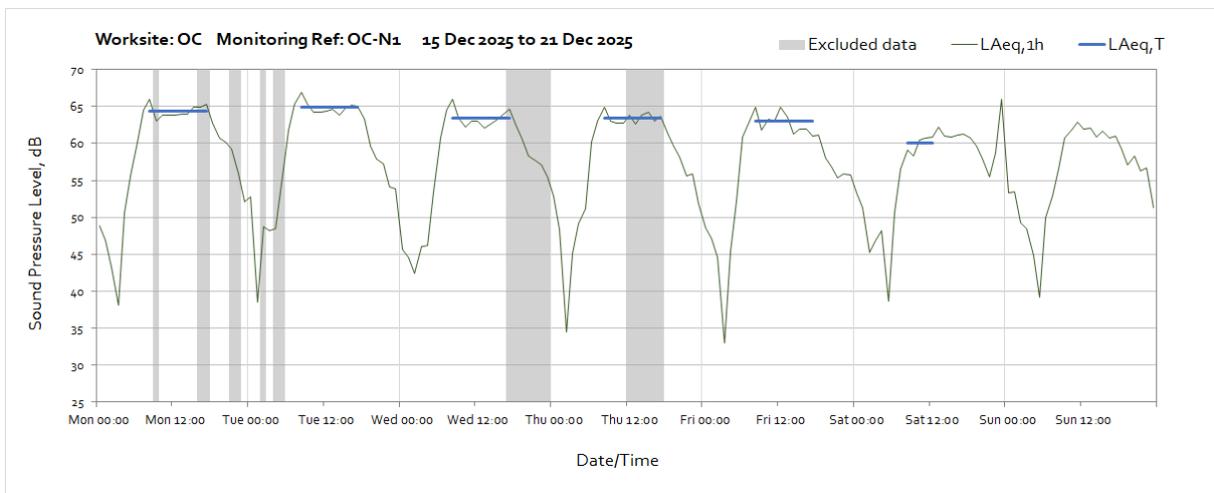
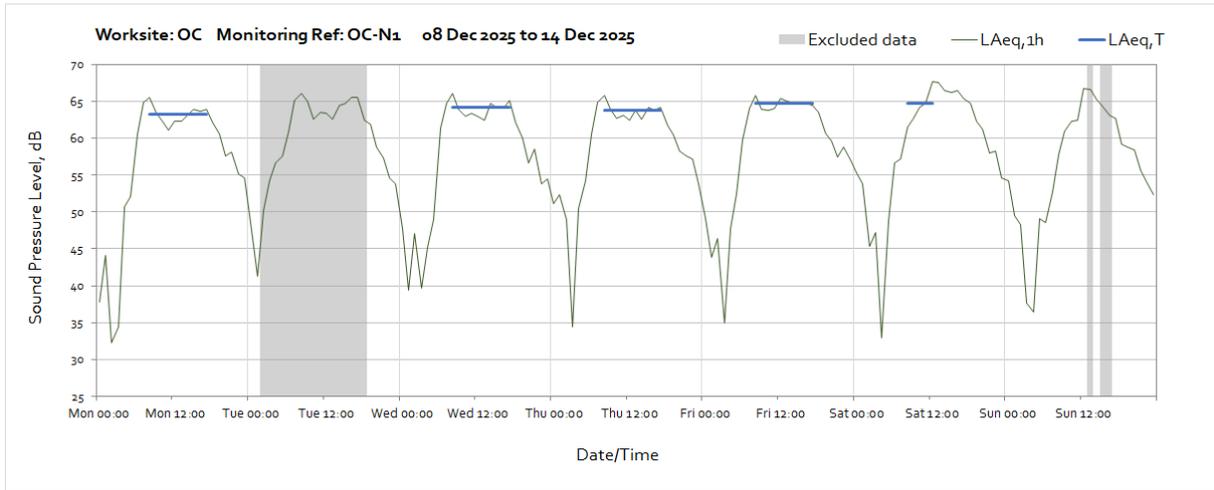
Note: Missing data between start of the month and 13:00 on Thursday 4th December was due to faulty system at the monitoring station.





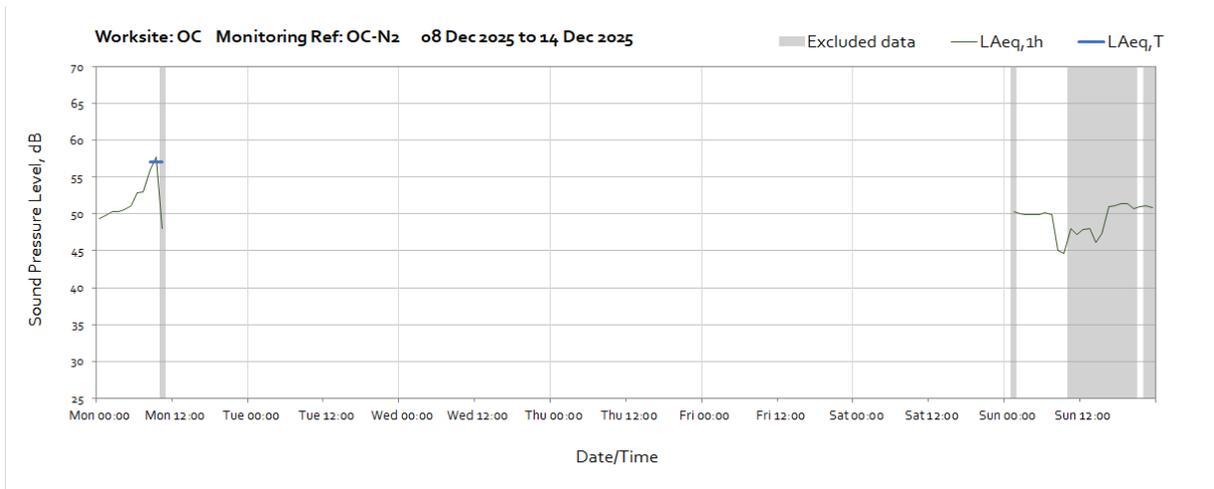
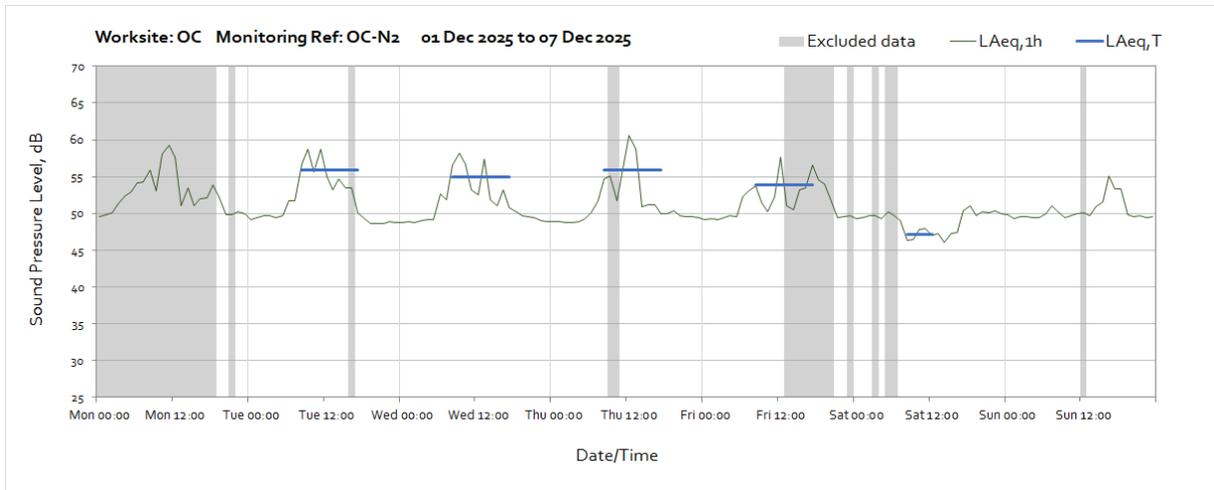
Worksite: OC – Monitoring Ref: OC-N1





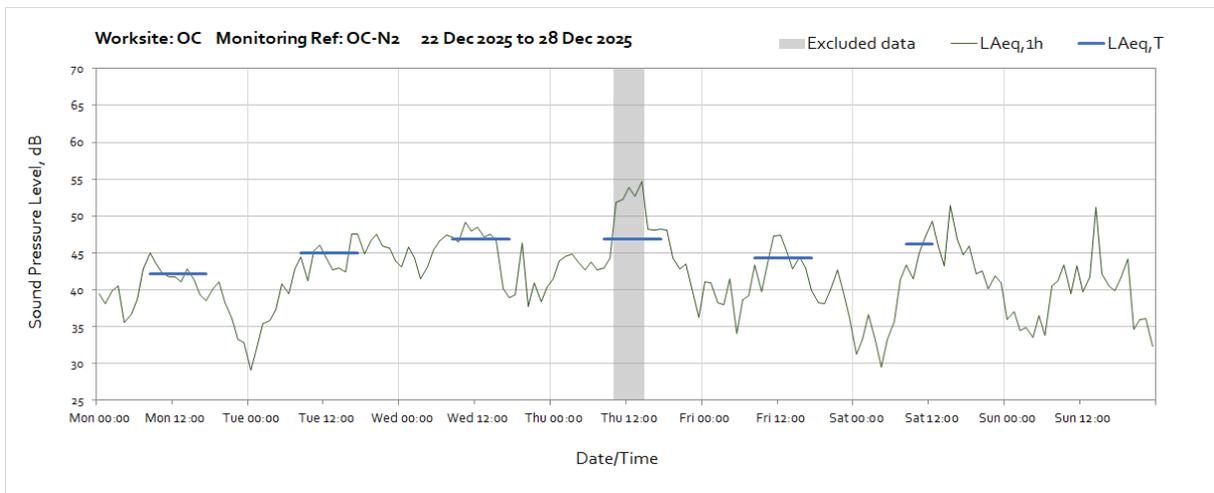
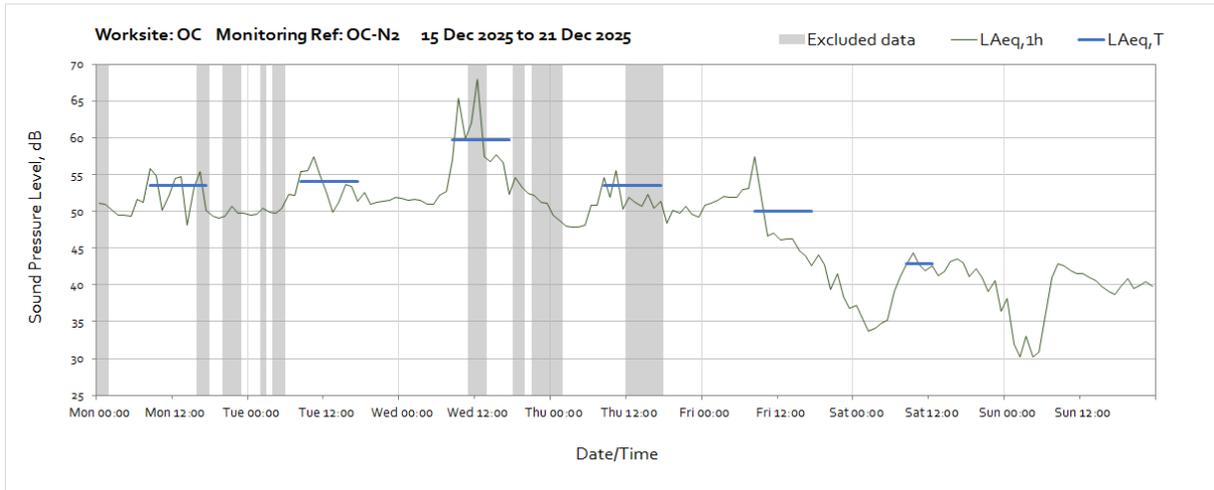


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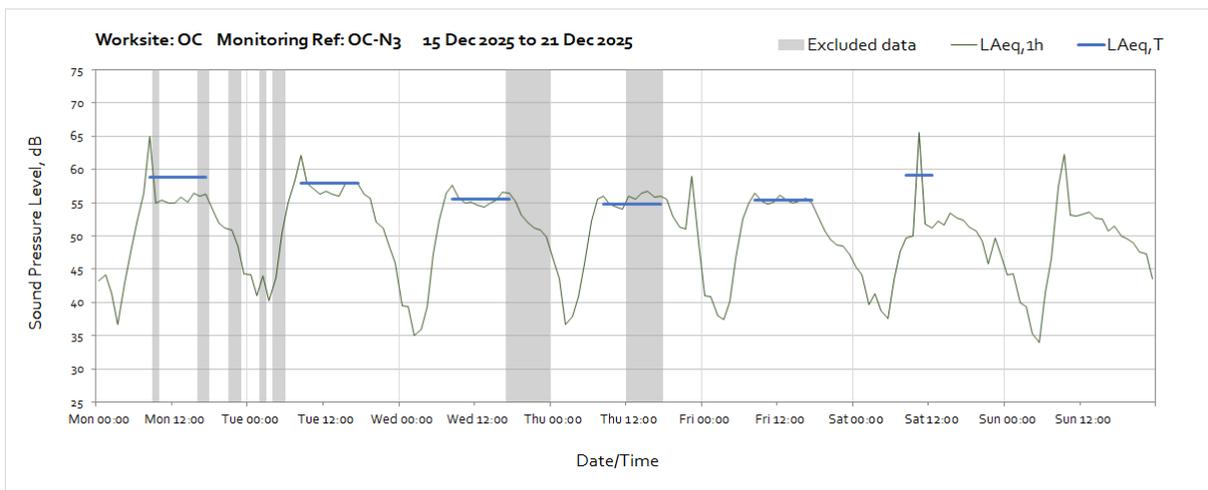
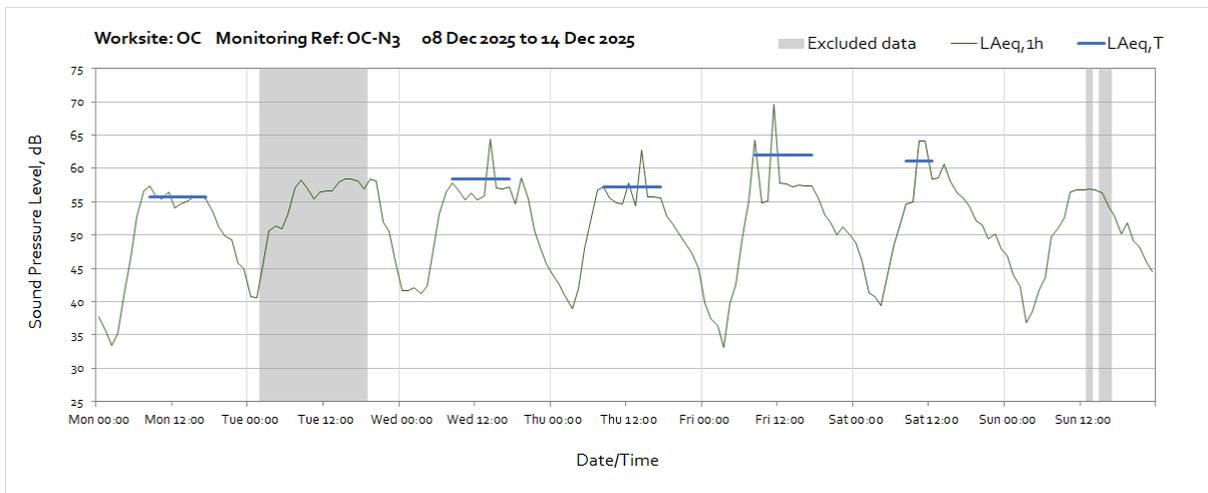
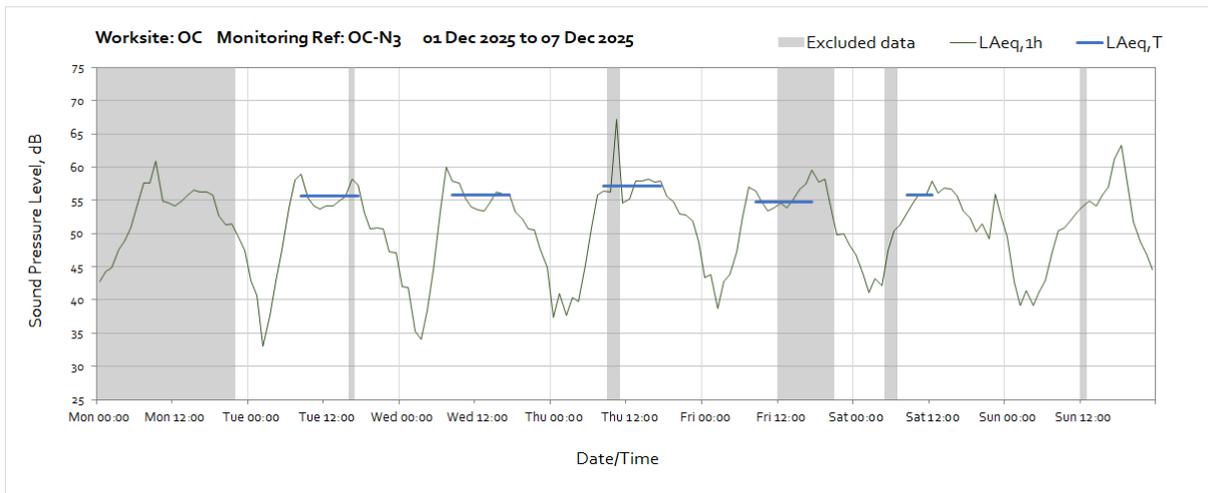


Note: Missing data throughout the week was due to system reset issues at the monitoring station.

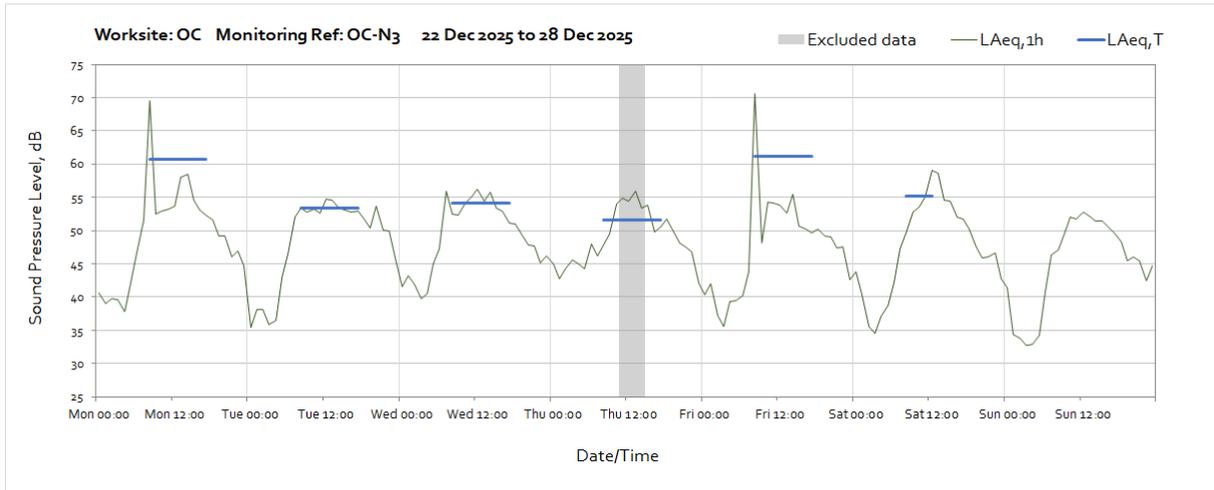
OFFICIAL



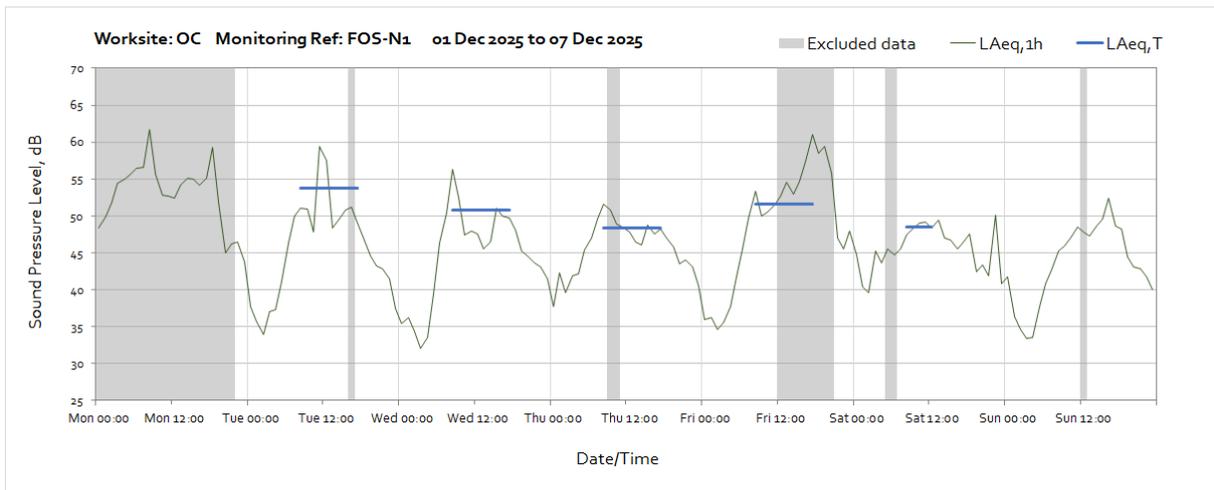
Worksite: OC – Monitoring Ref: OC-N3

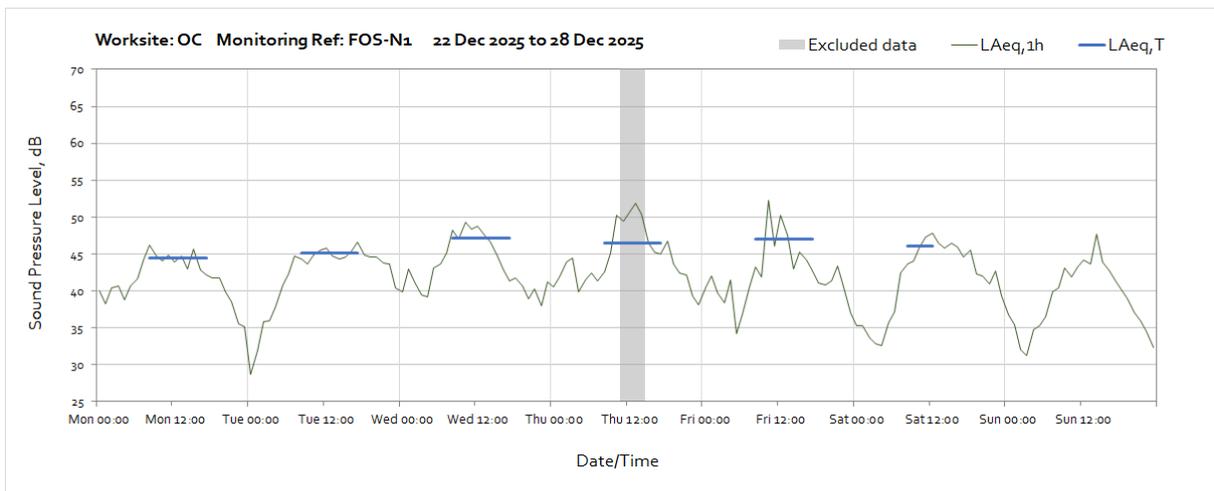
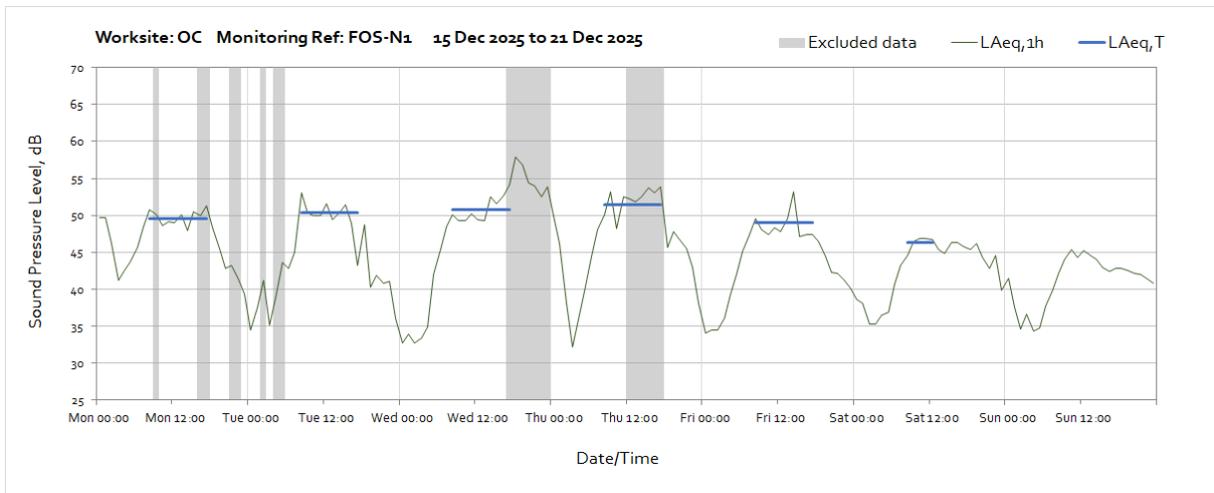
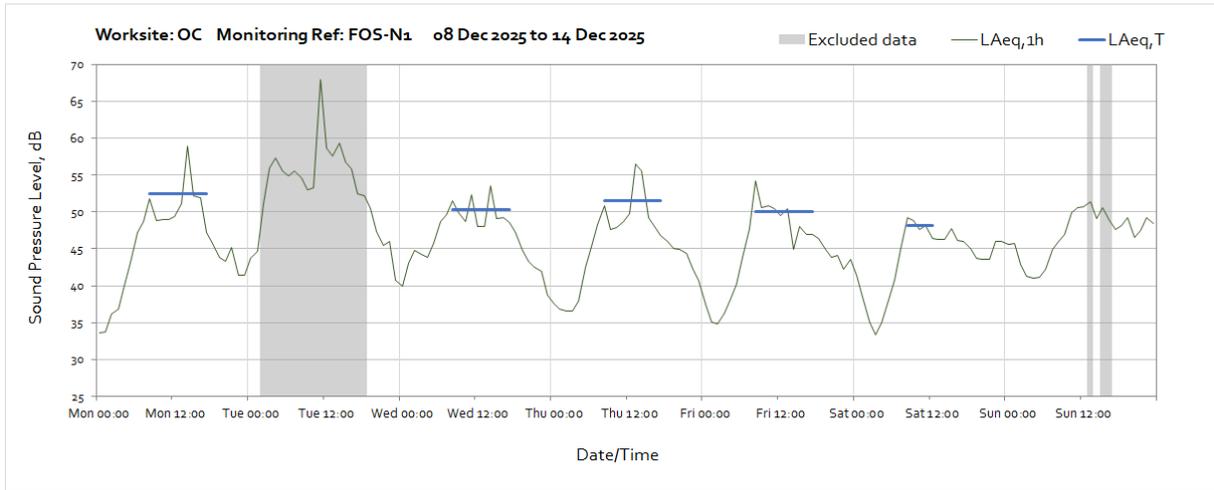


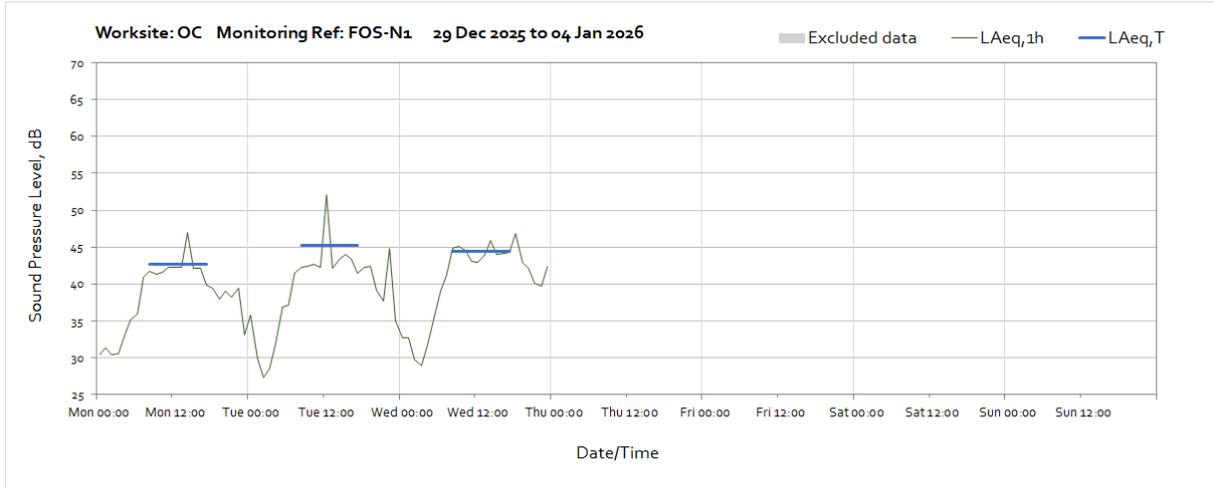
OFFICIAL



Worksite: OC - Monitoring Ref: FOS-N1



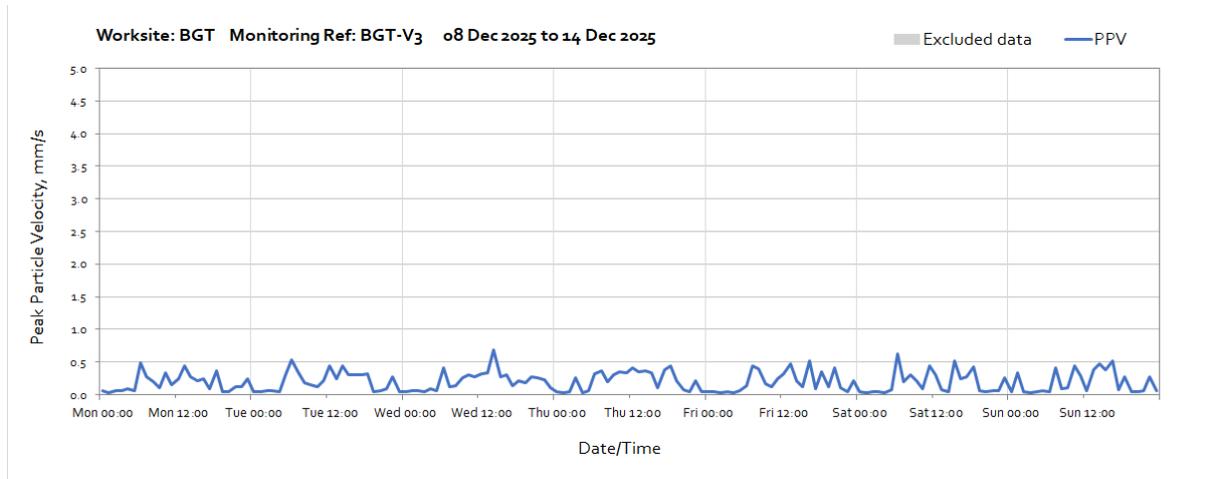
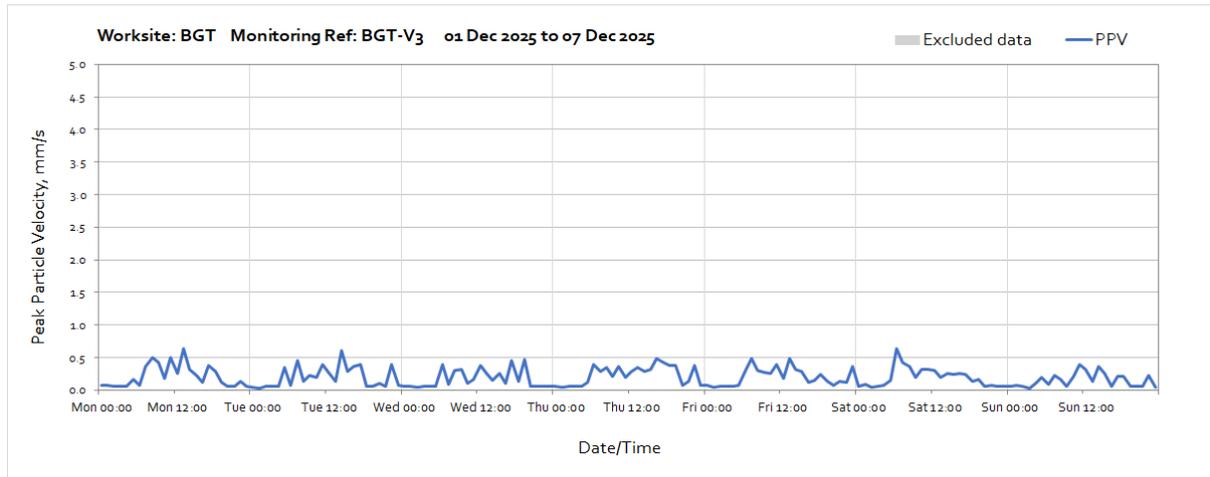


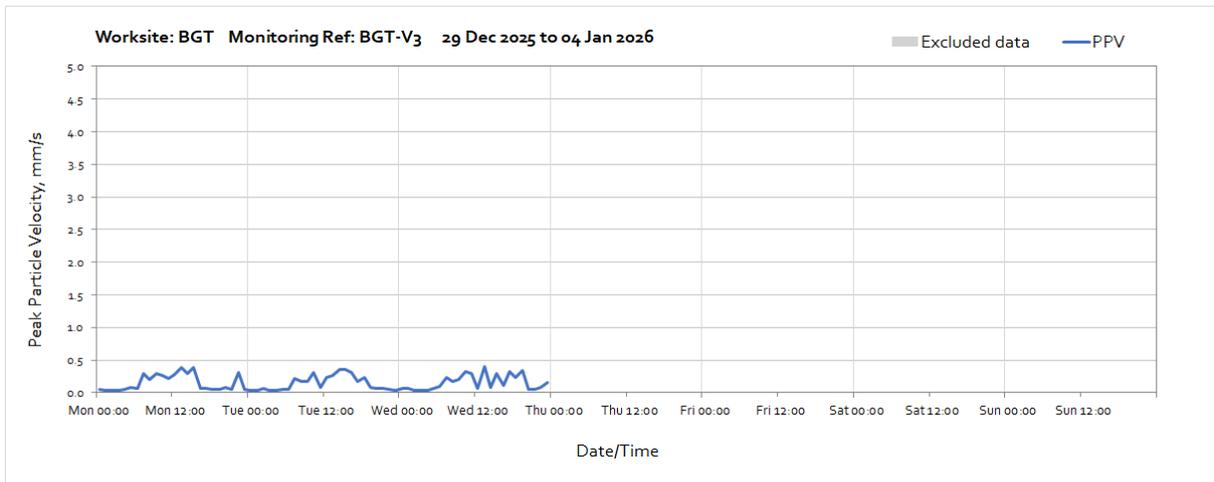
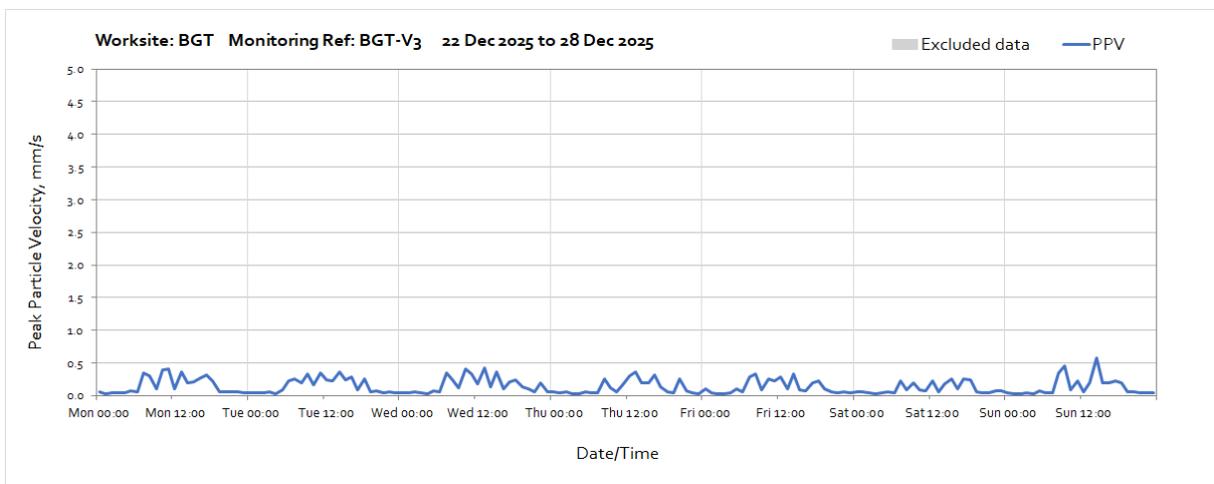
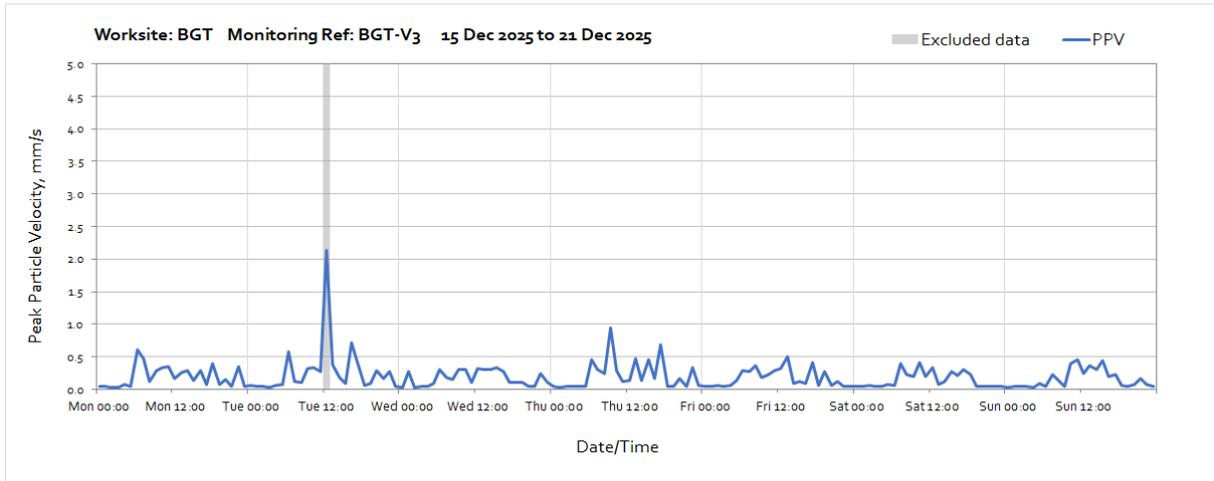


Vibration

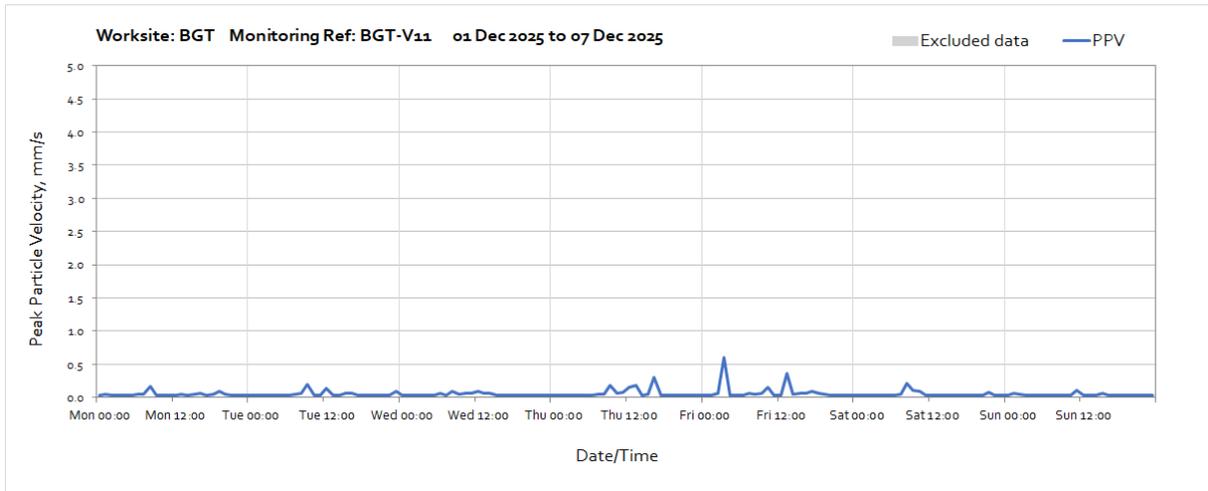
The following graphs show the hourly measured peak particle velocity (PPV) recorded during the monitoring period. The graphs show the highest PPV of the three orthogonal axes x, y and z. Periods where PPV values have been affected by local interference with the vibration monitor or only measured for part of the period, which are not representative of HS2 construction works, have been greyed out and excluded when calculating values in Table 4 of the main report.

Worksite: BGT - Monitoring Ref: BGT-V3

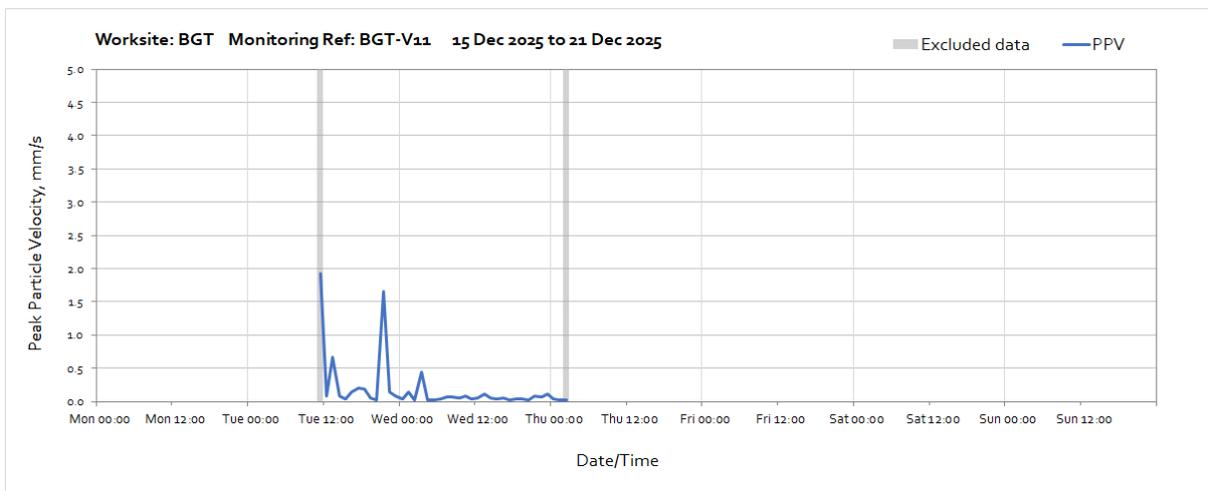




Worksite: BGT - Monitoring Ref: BGT-V11



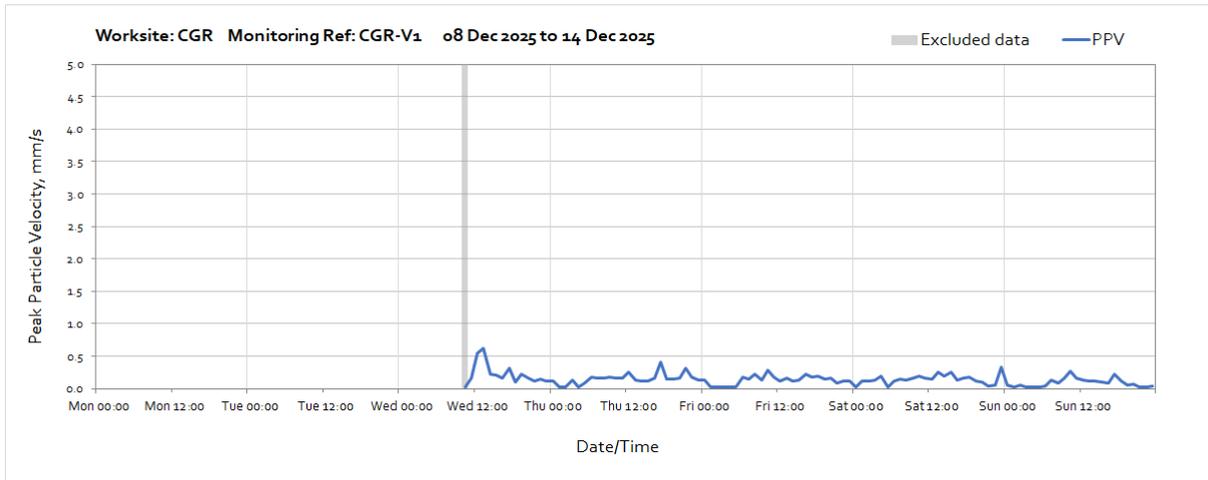
Note: Missing data throughout the week was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel



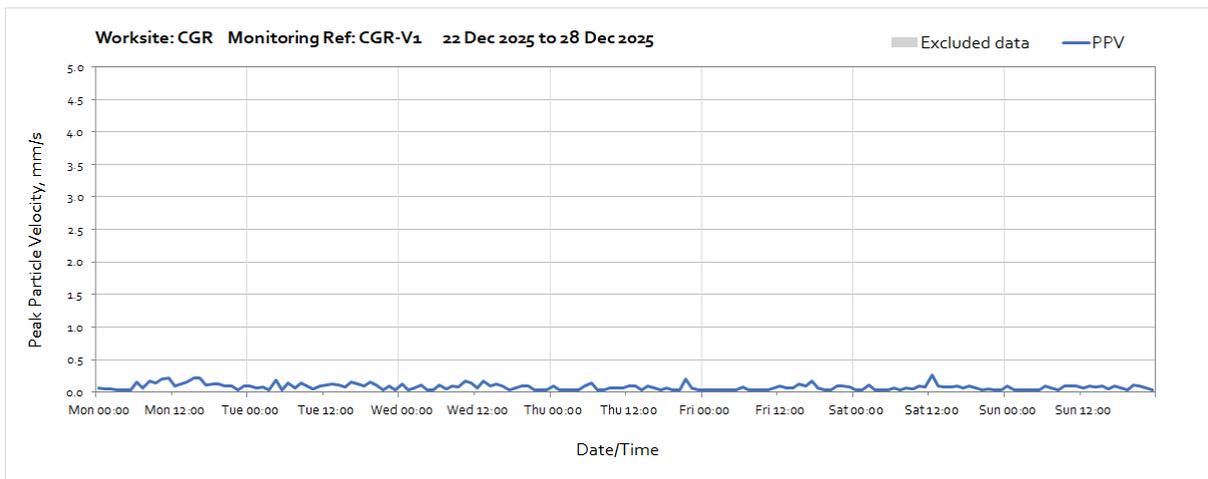
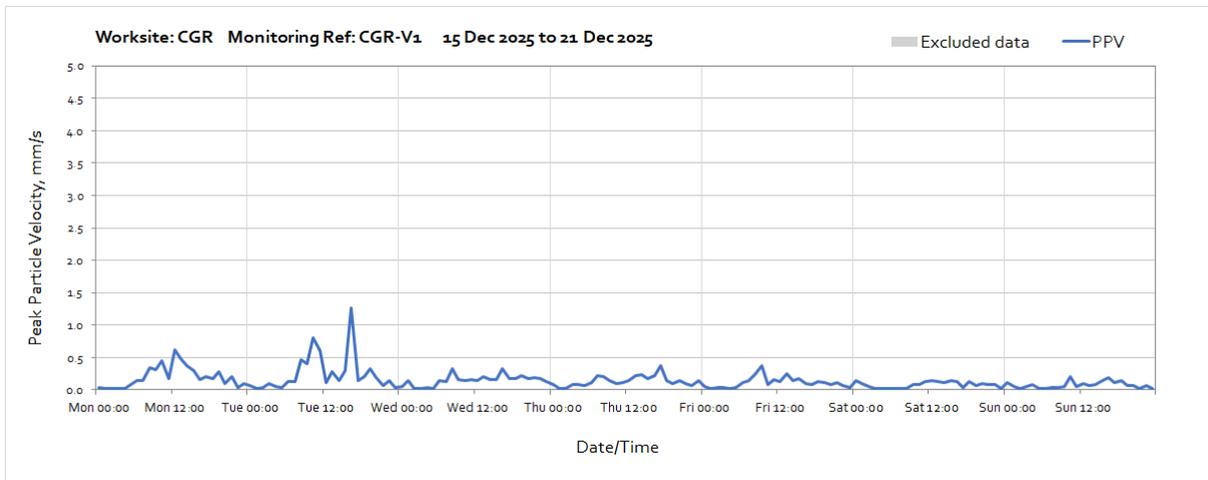
Note: Missing data throughout the week and till end of the month was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar pane.

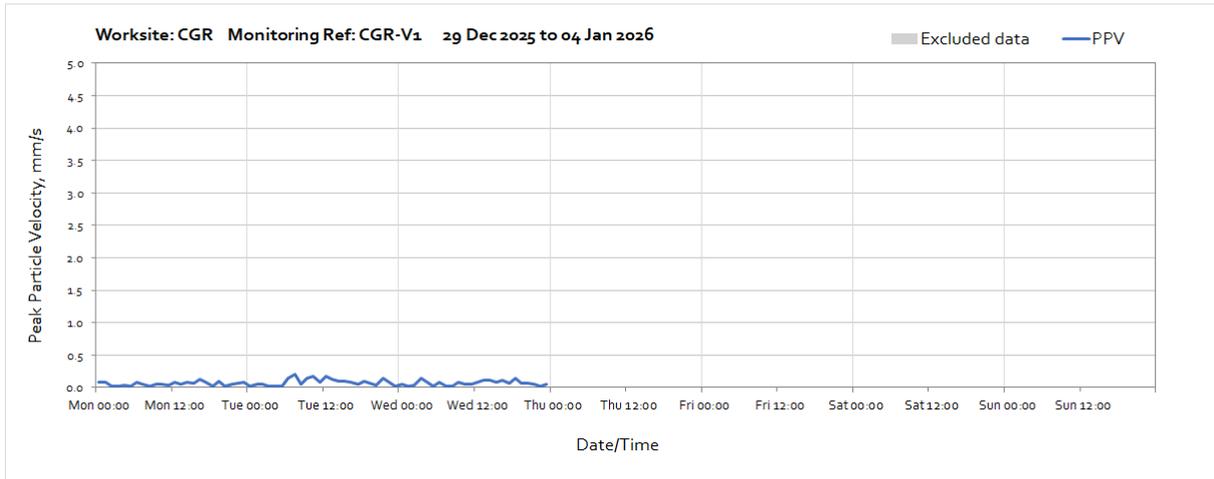
OFFICIAL

Worksite: CGR – Monitoring Ref: CGR-V1

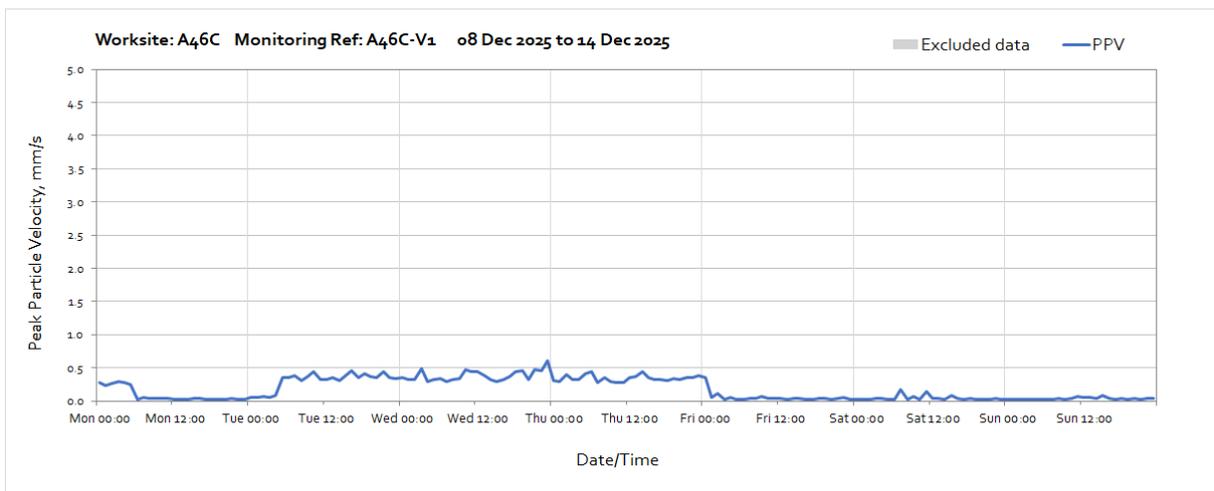
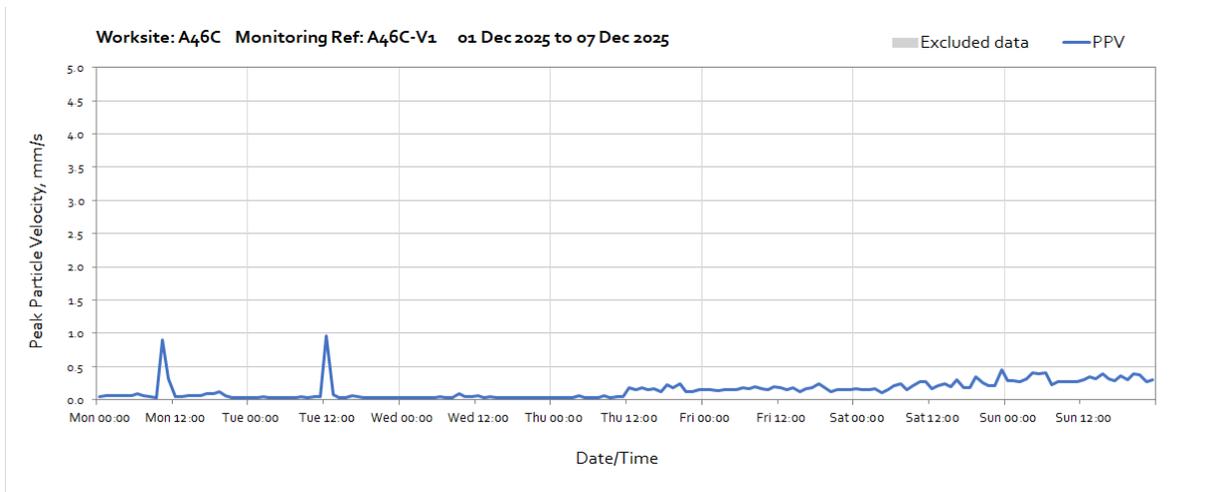


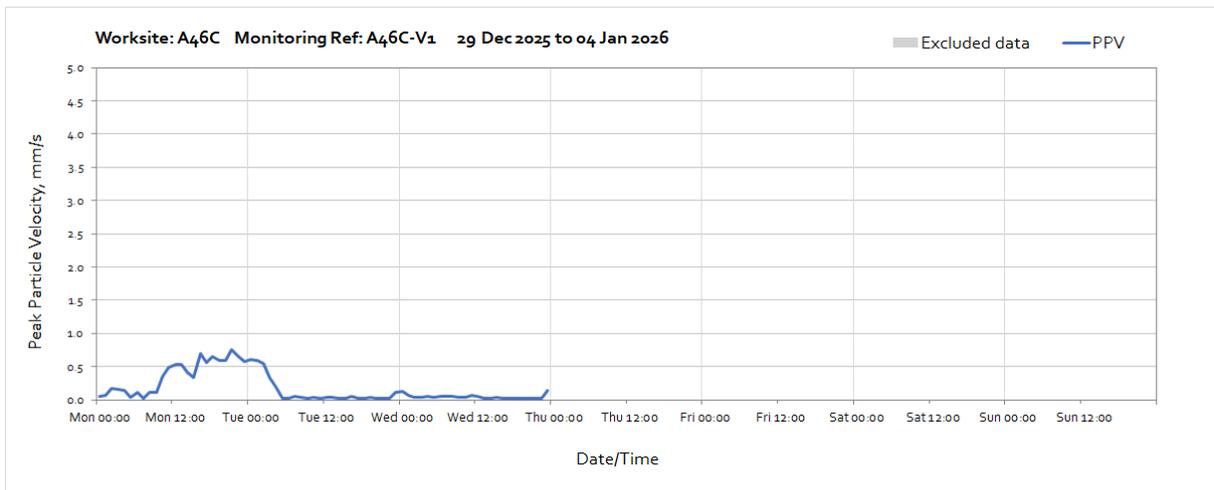
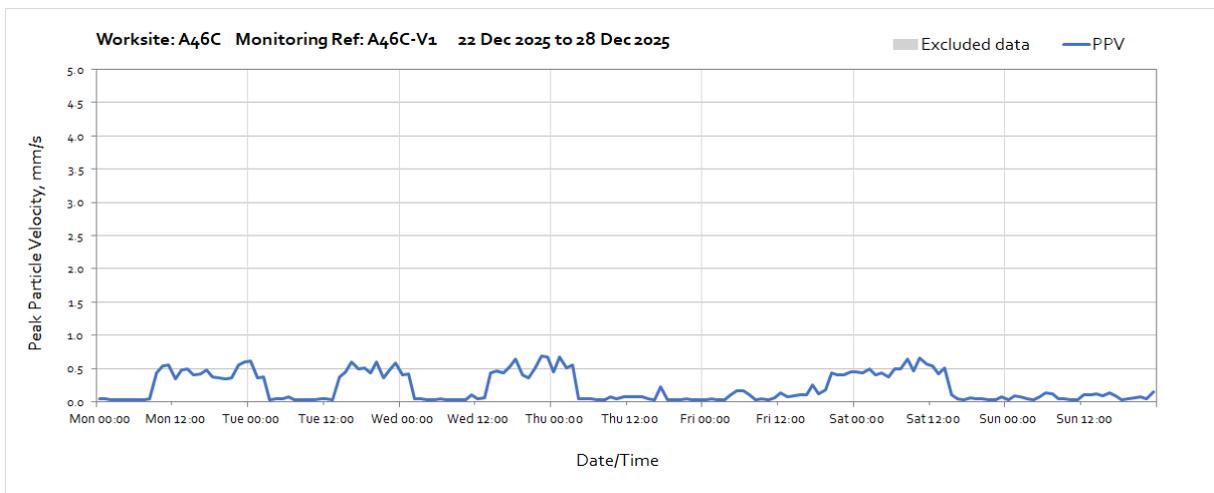
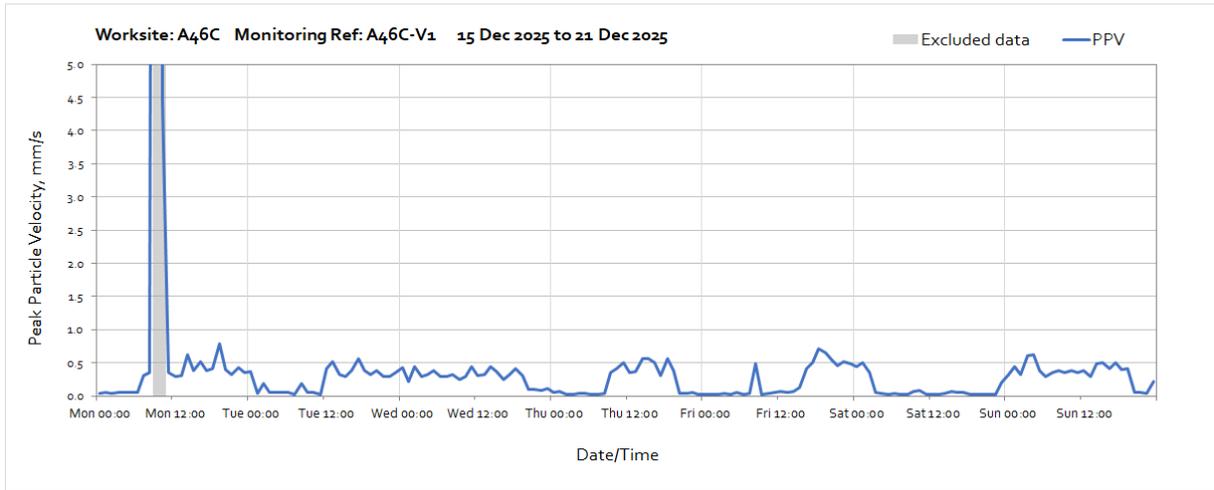
Note: The monitor was installed on Wednesday 10th December.



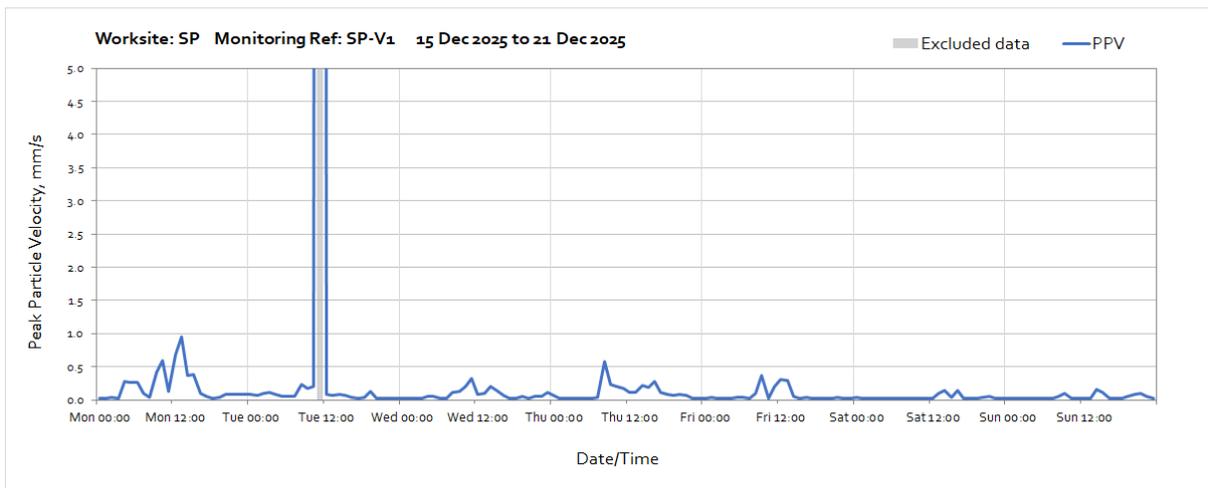
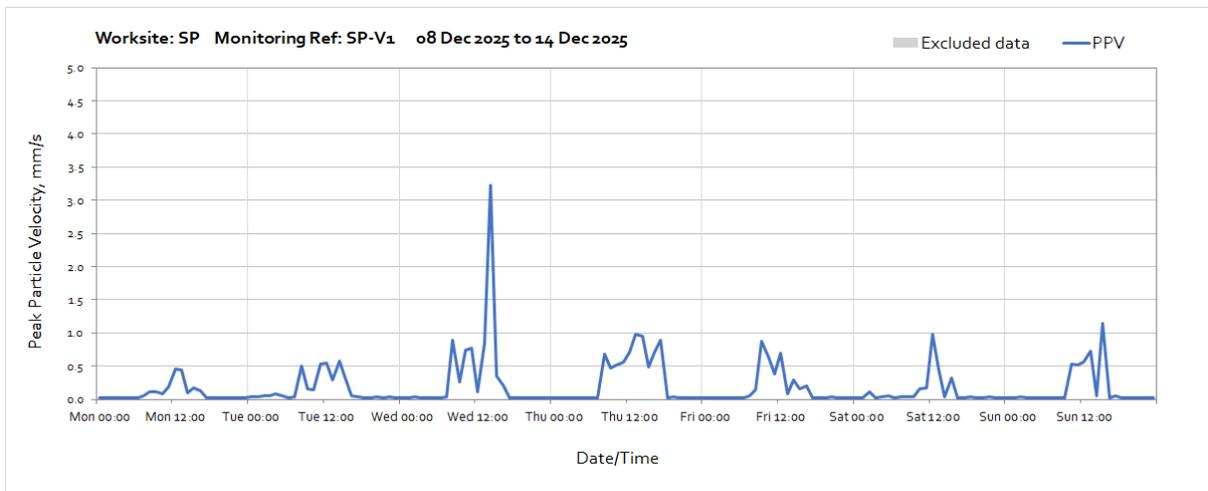
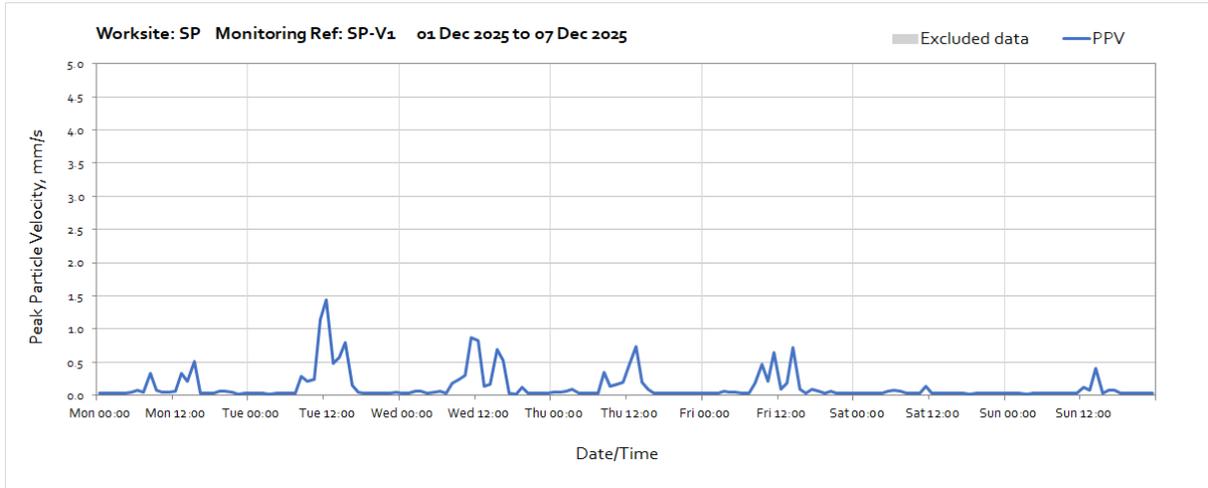


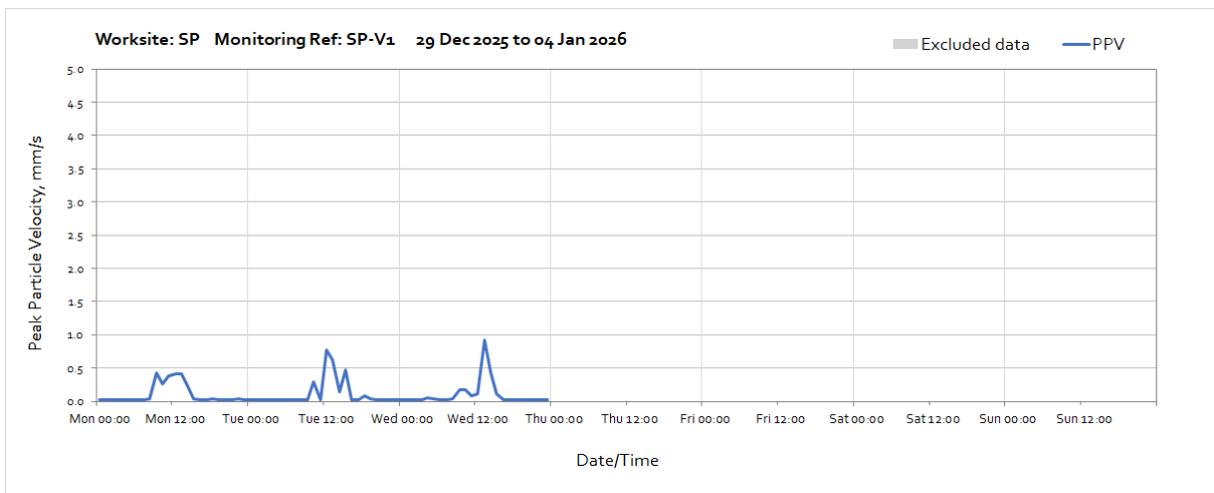
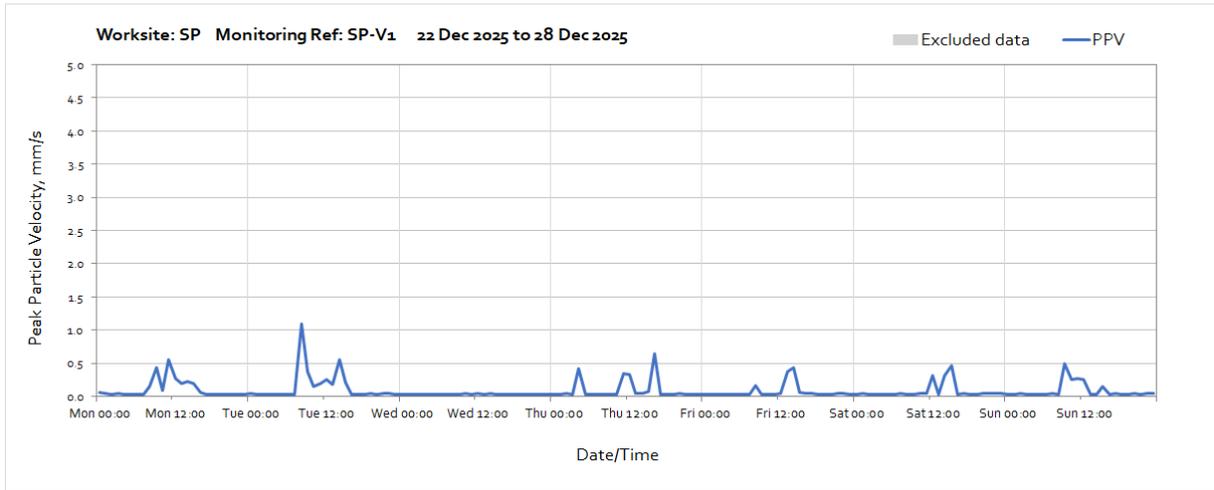
Worksite: A46C - Monitoring Ref: A46C-V1



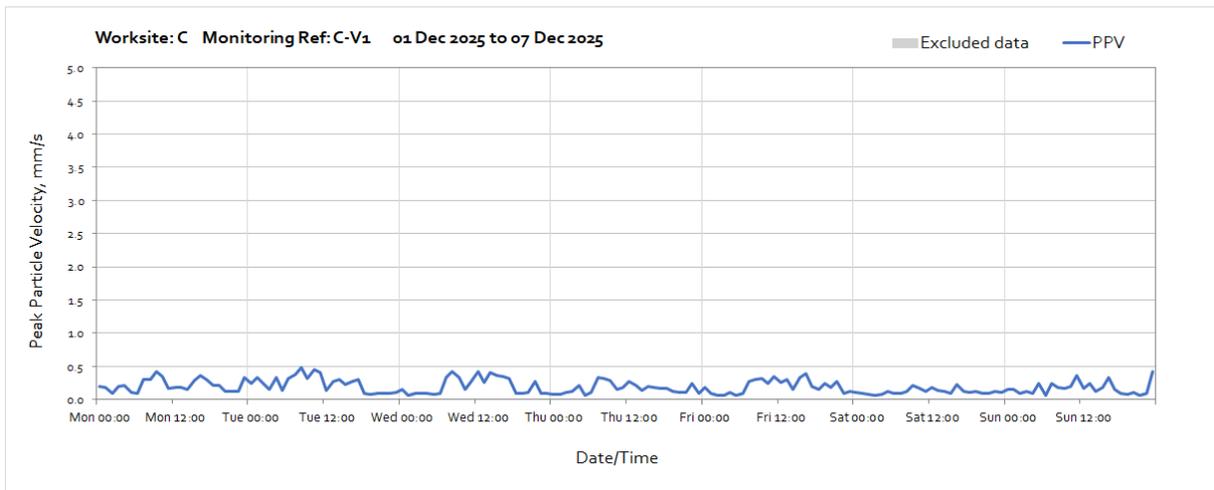


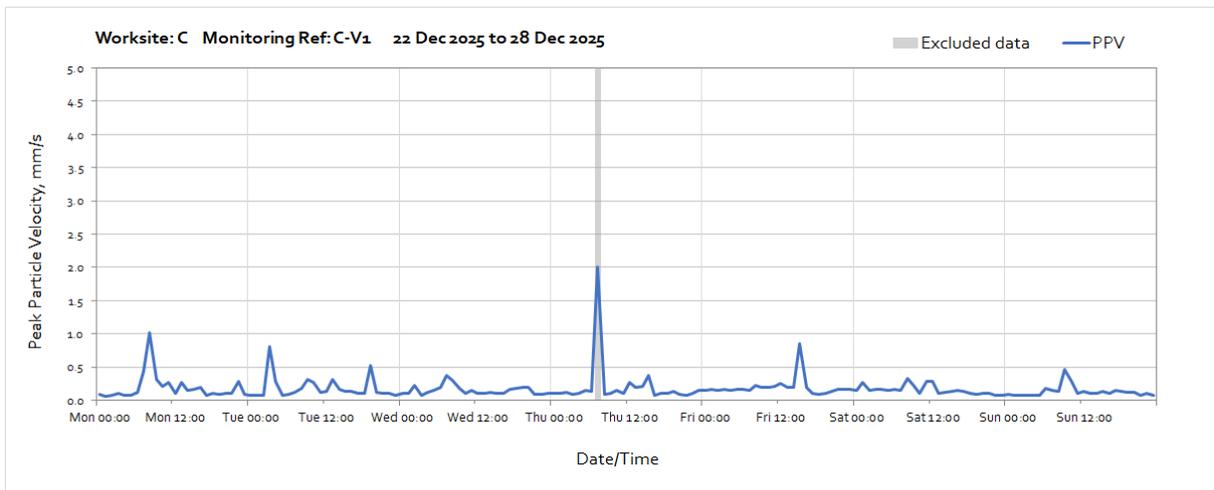
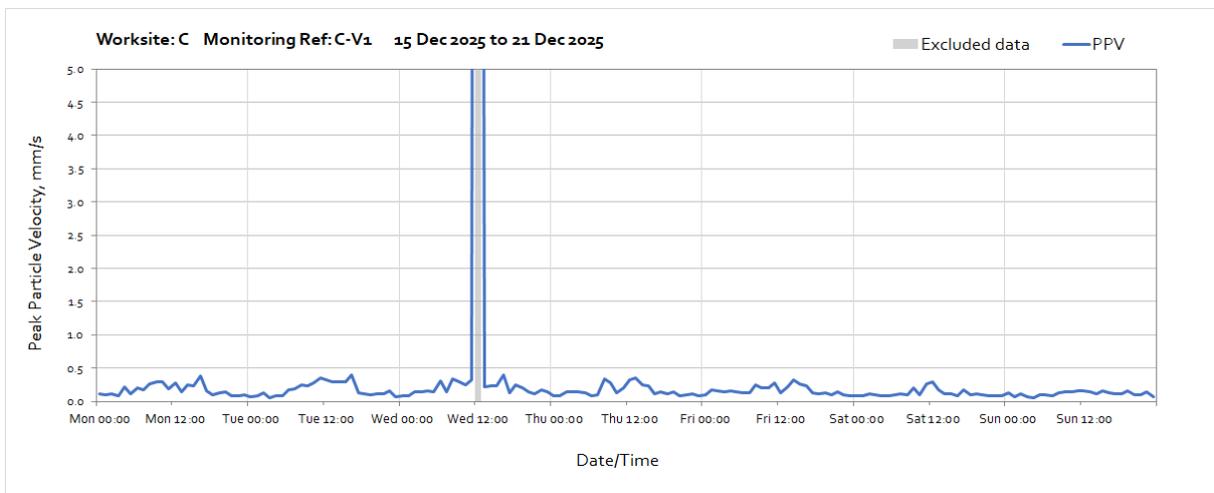
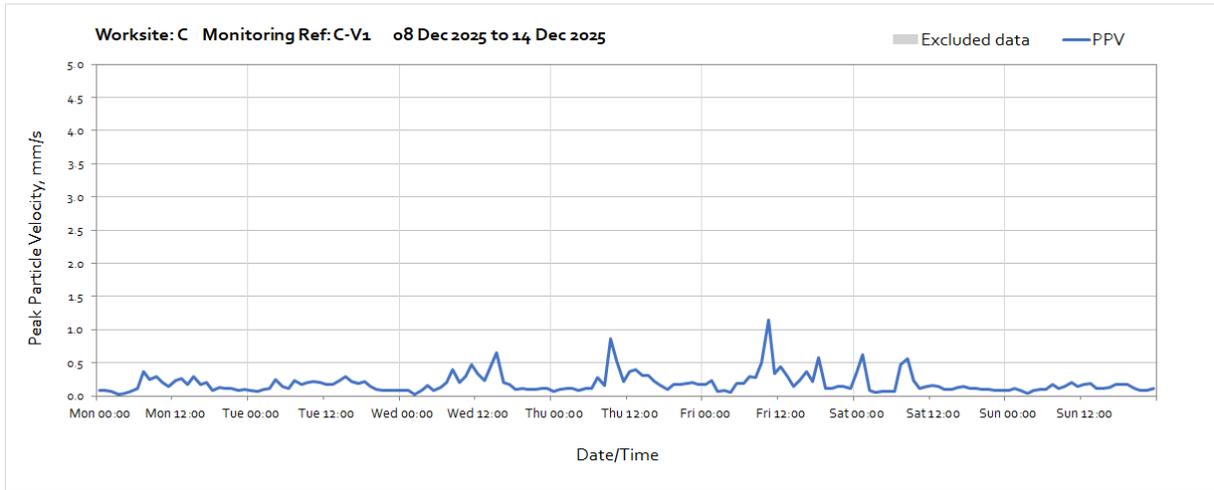
Worksite: SP – Monitoring Ref: SP-V1

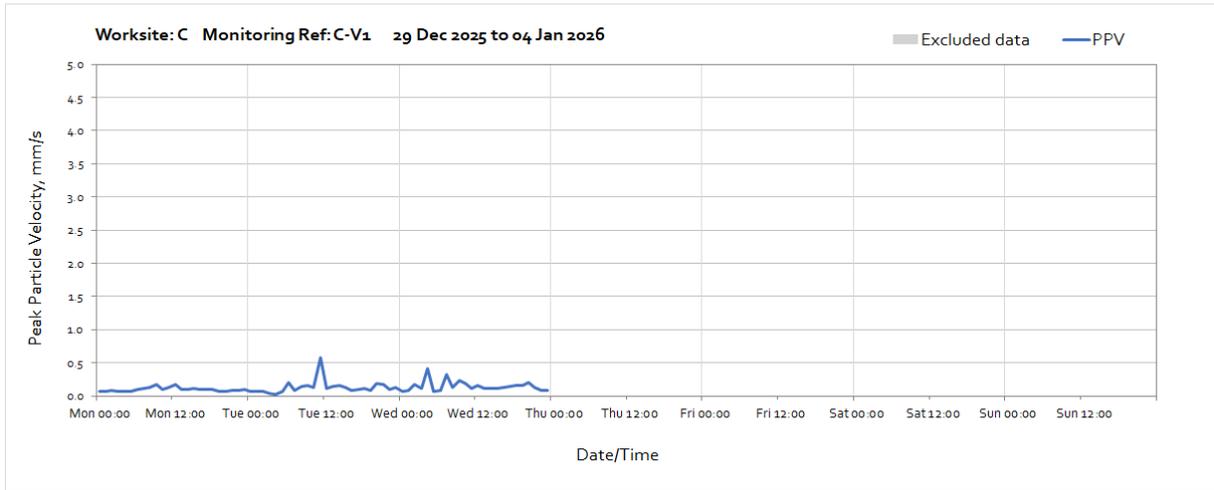




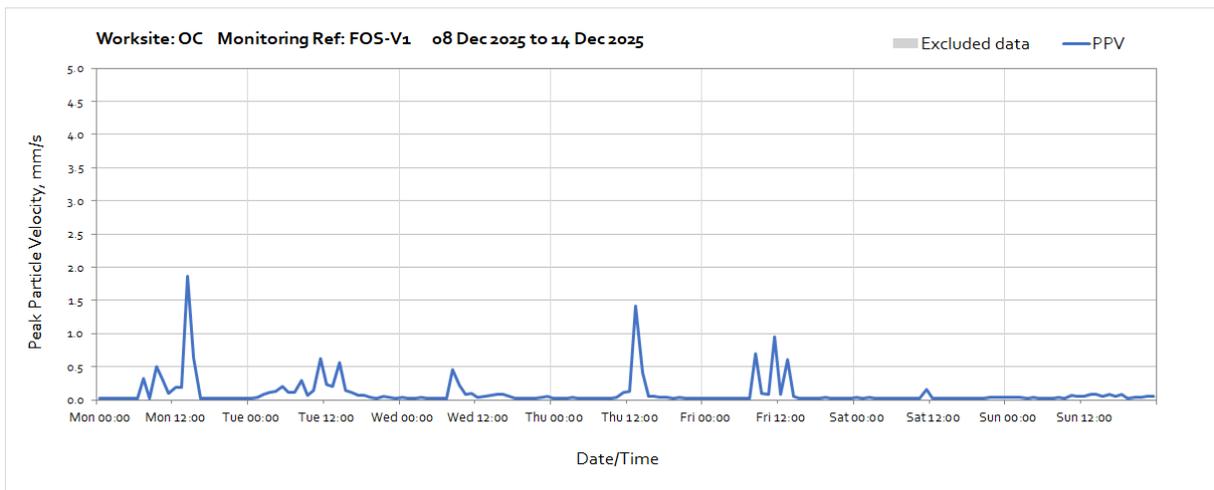
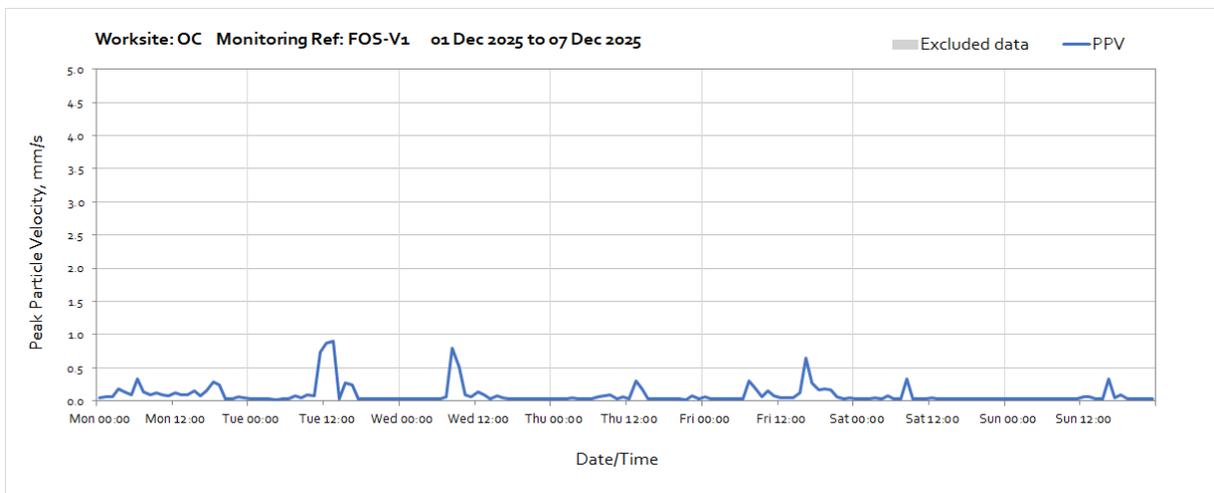
Worksite: C - Monitoring Ref: C-V1

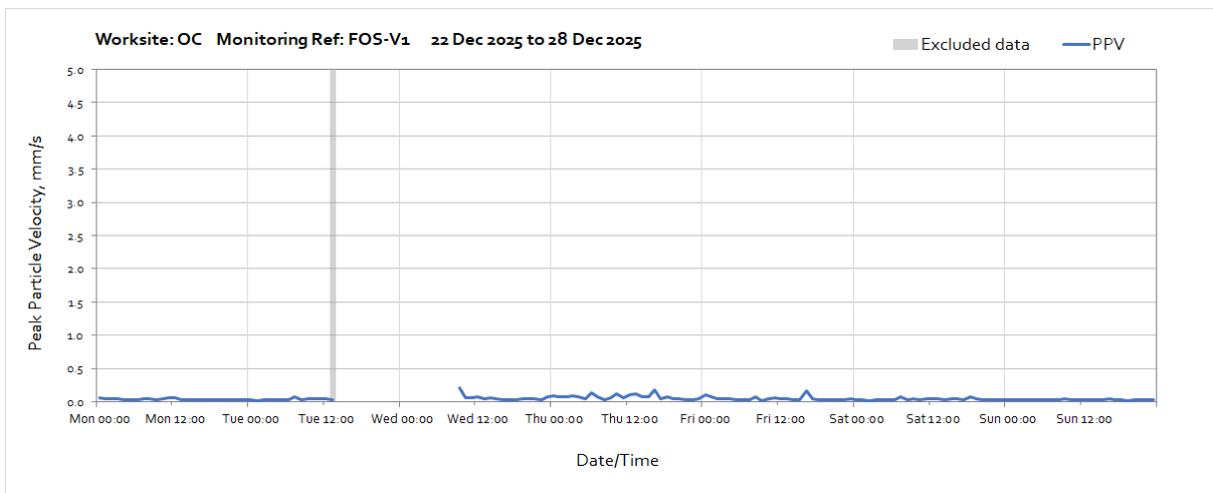
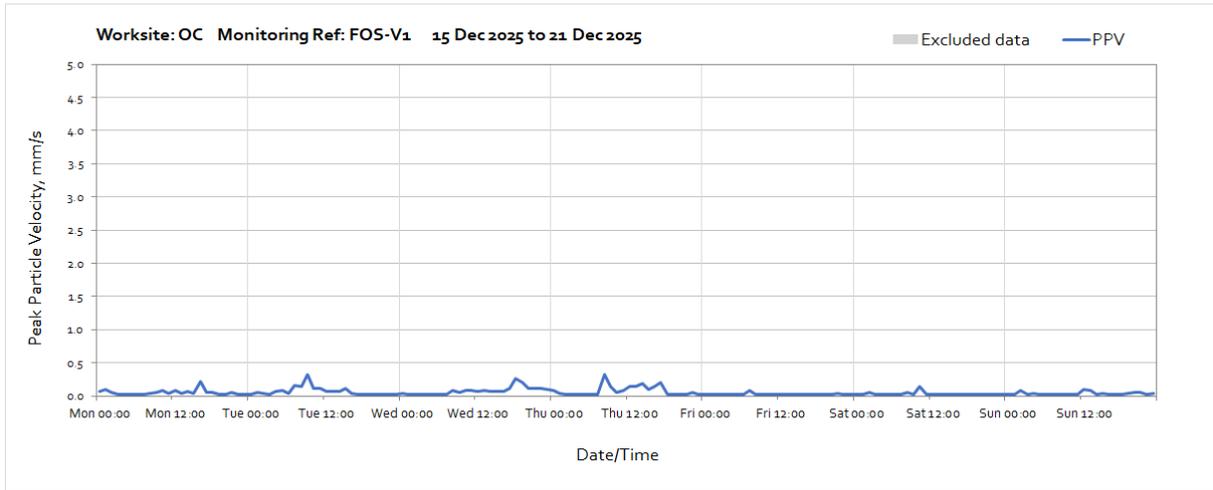




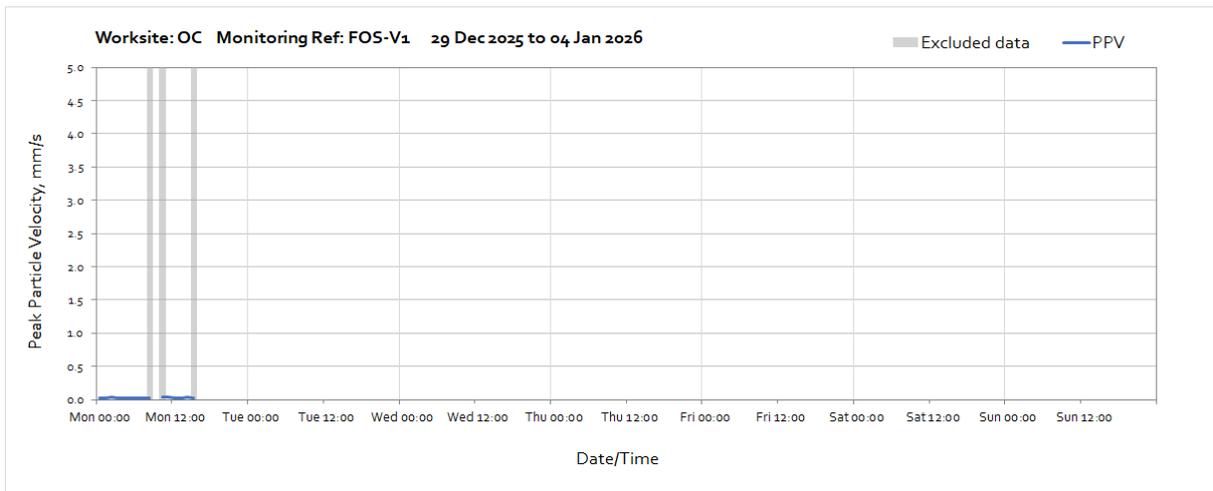


Worksite: OC - Monitoring Ref: FOS-V1





Note: Missing data between 14:00 Tuesday 23rd December and 09:00 on Wednesday 24th December was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.



Note: Missing data throughout the week and to the end of the month was due to loss of power to the monitoring station caused by poor weather conditions preventing sufficient light to reach the solar panel.